FAMILIARIZATION TRAINING COURSE FOR THE NEW TACTICAL FORECAST SYSTEM (NTFS 3.1.1)

UNIT 1: OVERVIEW OF NTFS 3.1.1

UNIT 1: OVERVIEW OF NTFS 3.1.1

- NTFS 3.1.1 Hardware Enhancements.
 - Provide Intel Server Option.
 - Workstations.
 - Red-Hat Linux 7.1 Operating System.
 - 73GB External / 18GB Internal Hard Drive.
 - 21" Color Monitor.
 - Dell PowerEdge 2500 Single Option.
 - Single 1.13GHz P3 w/512KB Cache.
 - 512MB RAM.
 - Dell PowerEdge 2500 Dual Option.
 - Dual 1.13 GHz P3's w/512KB Cache.
 - 1024MB RAM.

UNIT 1: OVERVIEW OF NTFS 3.1.1

- NTFS 3.1.1 Hardware Enhancements.
 - Provide Intel Server Option.
 - Workstations.
 - Dell PowerEdge 6600 Quad Option.
 - Quad 1.4GHz P4 Xeon's w/512MB Cache.
 - 1024MB RAM.
 - Redundant Hot-Swap Power Supply and Cooling Fans.

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UNIT 1: OVERVIEW OF NTFS 3.1.1

- NTFS 3.1.1 Hardware Enhancements.
 - Provide Intel Server Option.
 - Deployable Laptops.
 - Dell Latitude C840.
 - Single 1.6GHz P4 w/512KB Cache.
 - 1024MB RAM.
 - 60GB Hard Drive.
 - 15" Color LCD (1600x1200).
 - Red-Hat Linux 7.1 Operating System.
 - Installed with VMware.
 - Allows Server and Client SW on Same Platform.

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UNIT 1: OVERVIEW OF NTFS 3.1.1







PowerEdge 2500

PowerEdge 6600

Latitude C840

UNIT 1: OVERVIEW OF NTFS 3.1.1

- NTFS 3.1.1 Hardware Enhancements.
 - Stand-Alone Local Weather Network System (LWNS) Server.
 - FAA, ANG, and USAFR Support.
 - Upgrade FCF/ATC Monitor and Keypad.
 - Processor Upgraded in NTFS 2.0.
 - 9" or 15" Color Monitor.
 - Upgraded Keypad to Support New Capabilities.
 - Similar to Existing FCF/ATC Keypad with New Face Plate.
 - Finger-Mouse Added.

UNIT 1: OVERVIEW OF NTFS 3.1.1

- NTFS 3.1.1 Software Enhancements.
 - Ported SPARC Server SW to Solaris 8.
 - Ported Server SW to Red-Hat Linux 7.1.
 - Created LWNS/ATC and Local Operations Client (LOC) Software.
 - Planned to Replace Current FCF/ATC Hardware and Software.
 - FCF/FO's Are No Longer Supported.
 - Uses Windows NT/2000 OS.
 - C/DM May Still Be Required.
 - Legacy FCF/ATC's are Still Supported.

UNIT 1: OVERVIEW OF NTFS 3.1.1

- NTFS 3.1.1 Software Enhancements.
 - System Manager/CSSO Enhancements.
 - Secure Shell (SSH) for Remote Maintenance Support.
 - Secure Socket Layer (SSL) Support.
 - IP Filters (Firewall) Support.
 - Users Report.
 - LWNS Position Creation.
 - LWNS Product Catalog Maintenance.
 - Option to Not Delete FTP'd Files From Source System.
 - NITF Product Staging.
 - Capability to Change Default Primary ICAO.

UNIT 1: OVERVIEW OF NTFS 3.1.1

- NTFS 3.1.1 Software Enhancements.
 - A/N Enhancements.
 - Capability to Ingest WMO Formatted A/N Data via FTP.
 - Added a "Merged Obs" Display From Launch Pad.
 - Moved Wind Shear Remarks Between Sky and Icing in TAF Format.
 - Warning, Watch, and Advisory Receipt Acknowledgements From LWNS Clients.
 - Receipt Acknowledgement Report (RAP).
 - Capability to Produce Automated TAFVER Reports.
 - Capability to Transmit Form 3813 Information to AFCCC.
 - Capability to View CWT LWDS From OWS Without Logging Into CWT.

UNIT 1: OVERVIEW OF NTFS 3.1.1

- NTFS 3.1.1 Software Enhancements.
 - Graphics Enhancements.
 - Customized Area-of-Interest (AOI) Backgrounds Using Hi-Resolution DTED and GTOPO30 (Terrain/Elevation Data) Mapping Information.
 - Added EXTERNAL GIF/JPG Location and Parameter Filters.
 - Uses Long ASCII Header (LAH) Information.
 - Similar to Product Viewer->Other Weather Products Search.
 - Local Caching of METSAT/NEXRAD/NITF Products and Backgrounds.
 - Ingest, Display, Creation, and Transmission of NITF Products.
 - Capability to Remove a Single Product From a Loop Sequence.

UNIT 1: OVERVIEW OF NTFS 3.1.1

- NTFS 3.1.1 Software Enhancements.
 - Misc. Enhancements.
 - Capability to Receive Urgent and Routine Alerts via FTP.
 - NTFS and LWNS Clients.
 - Browser Creation of Backgrounds Using Hi-Resolution DTED and GTOPO30 (Terrain/Elevation Data) Mapping Information.
 - Capability the Retrieve/Store GIDS Products at the NTFS Server, and FTP Fetch GIDS Products Using the GIDS Viewer.

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UNIT 2: LINUX SERVER **OPERATIONS**

UNIT 2: LINUX SERVER OPERATIONS

- All User Operations and MMI Are Identical to the SPARC Server.
 - Effort Made to "Map" SPARC Openwindows Look-and-Feel to Linux fvwm Look-and-Feel.
 - Clocks and Console Window "Look" Slightly Different.
 - Login and Shutdown/Bootup Slightly Different.

UNIT 2: LINUX SERVER OPERATIONS

Logging Onto the Server.

- From the "Login for NTFS Server" Login Screen, Type Your Username in the "Login" Field.
- Enter Your Password in the "Password" Field.
- Select < Return >, or "Go!".

UNIT 2: LINUX SERVER OPERATIONS

- Logging Onto the Server.
 - Blank Screen Saver Activated if the Login Screen is Displayed for More Than 5 Minutes.
 - Press <Return>, or Move the Mouse to Display the Login Screen.

UNIT 2: LINUX SERVER OPERATIONS

- Logging Onto the Server.
 - Server Will Display The Following:
 - Console Window Icon in Upper Right.
 - 2 Clocks (Local and UTC).
 - DOD Notice and Consent Banner Window (Automatically Removed After 60 Seconds).
 - SSL Activation Warning Window (Automatically Removed After 60 Seconds).
 - Only Displayed if SSL is Active.

UNIT 2: LINUX SERVER OPERATIONS

- Shutting Down the Server.
 - From the NTFS Main Workspace Menu, Select "Shutdown Server->Shutdown Server".
 - Ignore All Displayed System Screens and Messages.
 - Server Will Display "Power down.".
 - Turn-Off the Server.

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TRAINING COURSE

UNIT 2: LINUX SERVER OPERATIONS

- Rebooting the Server.
 - With the Server Powered-Off, Turn-On the Server.
 - Server Will Perform Self-Test and Initiate Boot-Up Sequence.
 - Server Will Display "Login for NTFS Server" Login Screen When Completed.

UNIT 3: COMMON SERVER OPERATIONS

UNIT 3: COMMON SERVER OPERATIONS

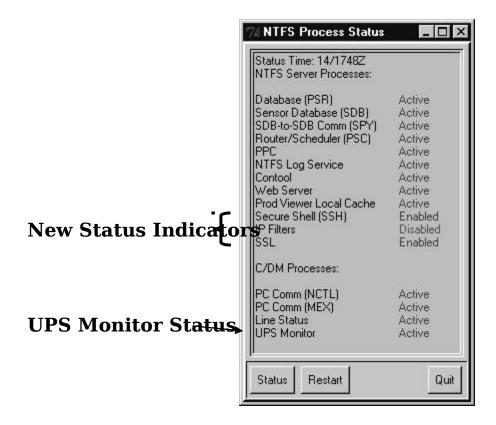
- Tcl/Tk System Status Report.
 - Removed "Remote Copy Processes"
 Status from Display.
 - Function Has Been Incorporated Into the Database Process (PSR).
 - Removed "Longline Comm (ADCIO)"
 Status from Display.
 - SCOMP.
 - Added "Secure Shell (SSH)", "IP Filters" and "SSL" Display.
 - Will Indicate Whether Function is "Disabled" or "Enabled".

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UNIT 3: COMMON SERVER OPERATIONS

- Tcl/Tk System Status Report.
 - Added "UPS Monitor".
 - Will Display Under NTFS Server or C/DM Processes, Whichever is Configured With the UPS.
 - C/DM Processes May Now Indicate "Removed".
 - SCOMP.

UNIT 3: COMMON SERVER OPERATIONS



System Status Panel

UNIT 3: COMMON SERVER OPERATIONS

- Tcl/Tk System Restart Menu.
 - Removed "Longline Communications" Selection.
 - SCOMP.
- NTFS Main Workspace Menu.
 - Removed "TAF Verification" Selection.
 - Not Used.
 - Added "SDB Data Receipt Trace" Selection.
 - Product Traces->SDB Data Receipt Trace.
 - Real-Time Trace of Incoming AOS Data From SNR.
 - Will Automatically Close After 5 Minutes.

UNIT 3: COMMON SERVER OPERATIONS

7% NTFS Restart Menu		_ 🗆 X
Process to Restart		
C NTFS Database (PSR/PSC)	C PPC Communications	C PPC Queue Purge
C Restart Web Server	C Shutdown Web Server	C Clear Print/Mail Queues
C Sensor Processes (SDB/SPY)		
C C/DM-to-PC Communications	C Line Status Process	
Destination:		
1		
Perform Action		Quit

Restart Panel

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UNIT 3: COMMON SERVER OPERATIONS

- Ability to Receive Urgent and Routine Alerts via FTP.
 - Source Agency Follows General Dynamics Created, and Government Approved ICD Format.
 - Ingest Allowed via RSM FTP Ingest Authorization.
 - Select **FTP->Ingest Authorizations** to Configure Username and Password.
 - Alerts Will Be Displayed in Both the NTFS and LWNS Clients.
 - Configure NTFS Clients For External Alerts Using RSM **Alerts->System Error** Table.
 - LWNS Clients Will Always Display Alerts.

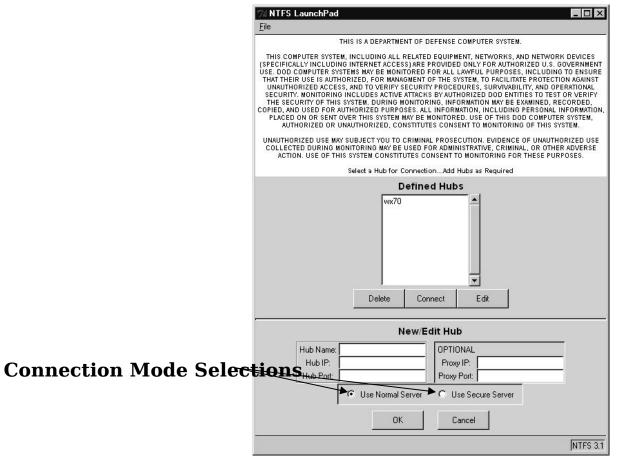
UNIT 4: SYSTEM MANAGER

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UNIT 4: SYSTEM MANAGER

- Client Login Panel.
 - Added "Normal" and "Secure"
 Connection Modes.
 - "Normal" Connection (e.g. Port 80, 82).
 - "Secure" Uses SSL Connection (e.g. Port 443).
 - Port and Mode Must Match Server Configuration.
 - RSM CSSO Access Control->Server Access Control.

UNIT 4: SYSTEM MANAGER



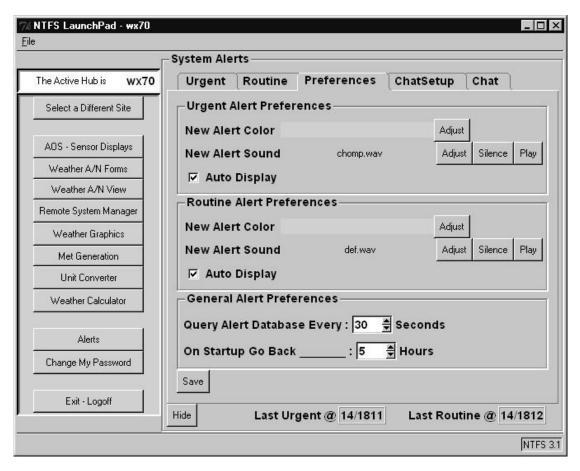
Login Panel

UNIT 4: SYSTEM MANAGER

Client Preference Panel.

- Select **Silence** to Turn-Off Urgent and/or Routine Alert Sounds.
- Toggle "Auto Display" to Automatically De-iconify Client Window When Routine and/or Urgent Alert Arrives.
- Select **Save** to Save Preferences to Server for Each Username.

UNIT 4: SYSTEM MANAGER



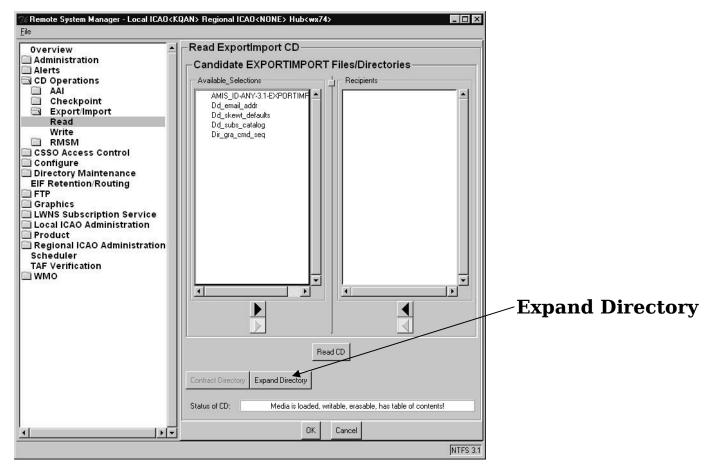
Alert Preferences Panel

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UNIT 4: SYSTEM MANAGER

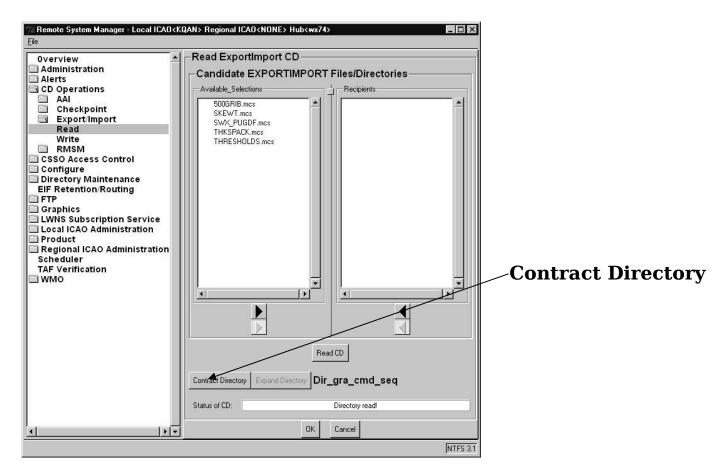
- Remote System Manager (RSM).
 - CD Operations->Export/Import->Read.
 - Allow Selective File Copies Within Directories, Instead of Entire Directory.
 - With Directory Moved to "Recipients Column" (Only Those Filenames Beginning With "Dir" are Directories), Select "Expand Directory".
 - List of Files Within Selected Directory is Displayed in "Available Selections" Column.
 - Move Required Files to "Recipients Column", and Select "Read CD.
 - To List CD Contents, Select "Contract Directory".
 - CD Operations->Forms.
 - Removed.

UNIT 4: SYSTEM MANAGER



Export/Import CD Read Options

UNIT 4: SYSTEM MANAGER

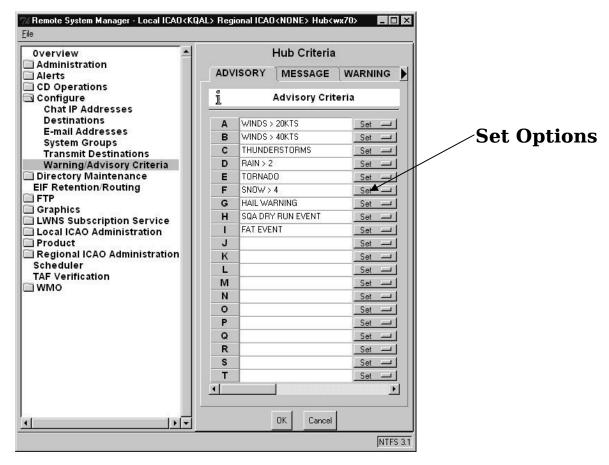


Export/Import Read Options

UNIT 4: SYSTEM MANAGER

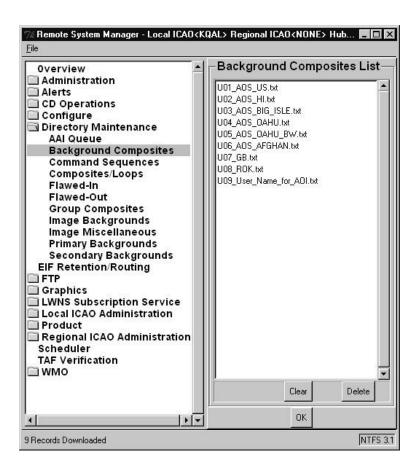
- Remote System Manager (RSM).
 - Configure->Warning/Advisory Criteria.
 - Removed "route" Configuration Selection Under "Set" Options.
 - No Longer Required With "Regional" Routing.
 - Configure->Longline Parameters.
 - Selection Removed Due to SCOMP.
 - Directory Maintenance.
 - Added "Background Composites" Selection.
 - Hi-Resolution DTED Map Backgrounds.
 - Deletes "Definition" Only, Individual Components Still Available on Server.

UNIT 4: SYSTEM MANAGER



Warning/Advisory Criteria Set Options

UNIT 4: SYSTEM MANAGER

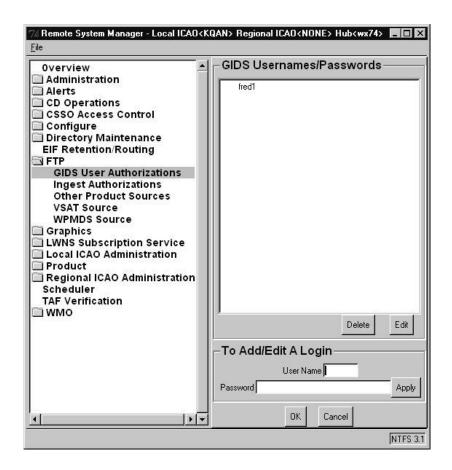


Background Composites Maintenance

UNIT 4: SYSTEM MANAGER

- Remote System Manager (RSM).
 - Added Capability to FTP Fetch and Store GIDS Products From Another External System.
 - Configure via FTP->Other Product Sources.
 - Added Capability to FTP Fetch GIDS Products Stored on the NTFS Server.
 - Select **FTP->GIDS User Authorizations**.
 - User Name. Enter FTP Login Name.
 - **Password**. Enter FTP Login Password.
 - Select **Apply**.
 - Configure FTP Fetch Using GIDS Viewer GUI.

UNIT 4: SYSTEM MANAGER

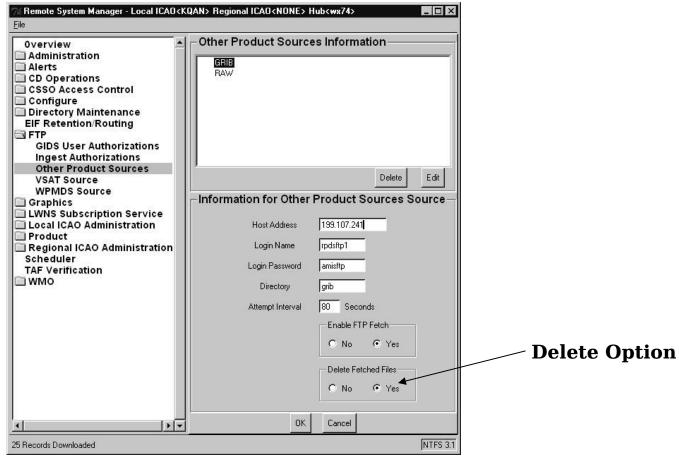


GIDS User Authorizations

UNIT 4: SYSTEM MANAGER

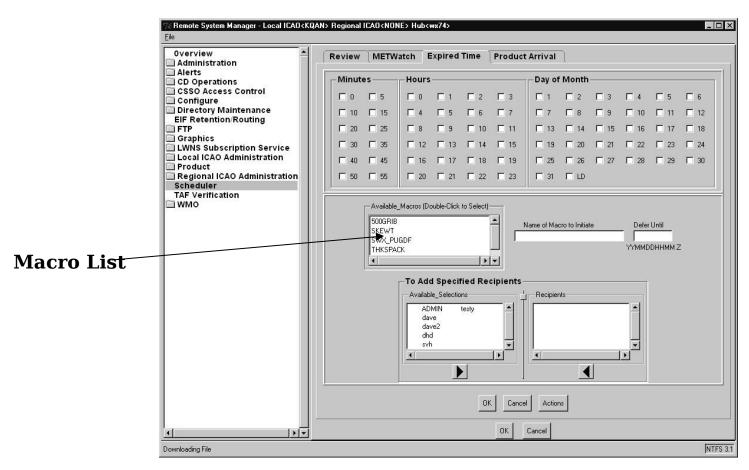
- Remote System Manager (RSM).
 - FTP->Other Product Sources.
 - Added "Delete Fetched Files" Option.
 - Select "Yes" to Delete File(s) After Retrieval From Source (i.e., VCH).
 - Scheduler.
 - Under "Execute Macro" Action, Added List to Select Macro.
 - Double-Click Selection to Move Into "Name of Macro to Initiate" Field.

UNIT 4: SYSTEM MANAGER



Delete Fetched Files Option

UNIT 4: SYSTEM MANAGER



Execute Macro List

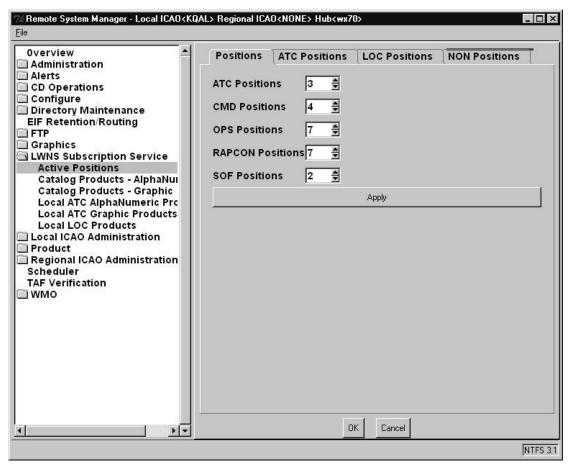
UNIT 4: SYSTEM MANAGER

- Remote System Manager (RSM).
 - LWNS Subscription Service.
 - Active Positions.
 - Catalog Products AlphaNumeric.
 - Catalog Products Graphic.
 - Local ATC Alphanumeric Products.
 - Local ATC Graphic Products.
 - Local LOC Products.

UNIT 4: SYSTEM MANAGER

- Remote System Manager (RSM).
 - LWNS Subscription Service.
 - **Active Positions -> Position** Tab Defines the Number of Each Type LWNS Position.
 - LWNS/ATC ATC and RAPCON Positions.
 - Creates 4-Character Position ID (LA##, LR##).
 - LWNS/LOC CMD, OPS, and SOF Positions.
 - Creates 4-Character Position ID (LC##, LO##, LS##).
 - Select "Apply" When Number of Each Position is Completed.

UNIT 4: SYSTEM MANAGER

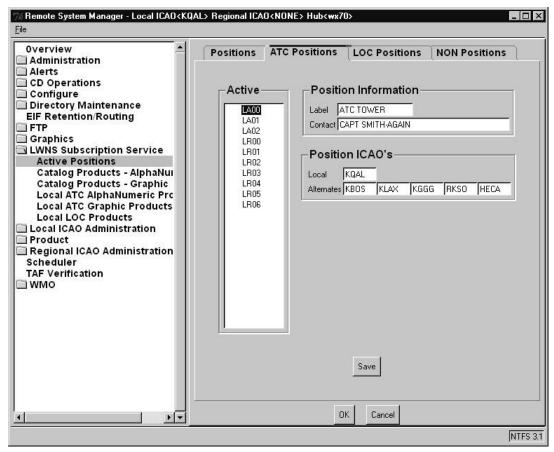


Active Positions

UNIT 4: SYSTEM MANAGER

- Remote System Manager (RSM).
 - LWNS Subscription Service.
 - **ATC Positions** Tab Defines ATC Position Information and ICAO's.
 - Highlight Each LA## and LR## Position.
 - Enter Label and Contact Information For Receipt Acknowledgement Report.
 - Enter Up to 5 Alternate ICAO's For Display.
 - Select "Save" After Each Position to Save Individual Information at Server.

UNIT 4: SYSTEM MANAGER

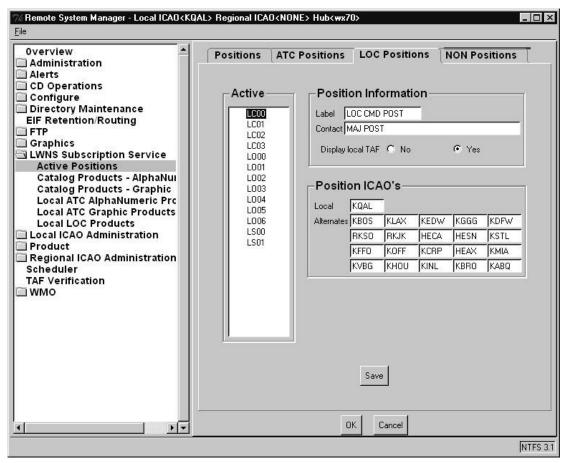


ATC Positions

UNIT 4: SYSTEM MANAGER

- Remote System Manager (RSM).
 - LWNS Subscription Service.
 - **LOC Positions** Tab Defines LOC Position Information and ICAO's.
 - Highlight Each LC##, LO##, and LS## Position.
 - Enter Label and Contact Information For Receipt Acknowledgement Report.
 - Enter "Yes" or "No" Whether Local Default ICAO TAF is Displayed.
 - Enter Up to 20 Alternate ICAO's For Display.
 - Select "Save" After Each Position to Save Individual Information at Server.

UNIT 4: SYSTEM MANAGER

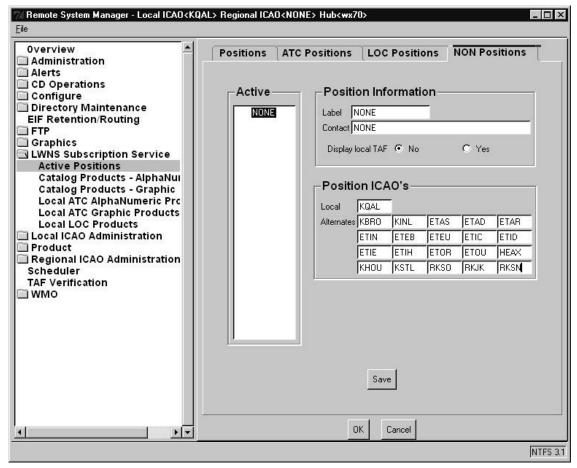


LOC Positions

UNIT 4: SYSTEM MANAGER

- Remote System Manager (RSM).
 - LWNS Subscription Service.
 - **NON Positions** Tab Defines the "No" Position Information and ICAO's.
 - Highlight the "NONE" Position.
 - Enter Label and Contact Information (Not Display on Receipt Acknowledgement Report).
 - Enter "Yes" or "No" Whether Local Default ICAO TAF is Displayed.
 - Enter Up to 20 Alternate ICAO's For Display.
 - Select "Save" to Save Information at Server.

UNIT 4: SYSTEM MANAGER

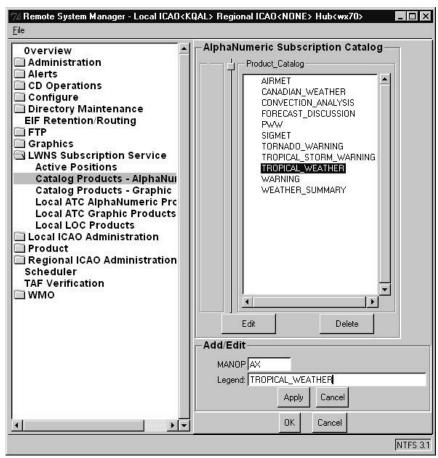


NON Positions

UNIT 4: SYSTEM MANAGER

- Remote System Manager (RSM).
 - LWNS Subscription Service.
 - Catalog Products AlphaNumeric Defines the A/N Products Available for Selection from the Product Catalog.
 - Pre-Loaded With Default A/N Catalog.
 - Enter 2-6 Character MANOP Header in MANOP Field.
 - Enter Plain Text Description of Product in Legend Field.
 - Will Be Used to Identify Product in Catalog and at LWNS/LOC Client.
 - Highlight Entry and Select "Edit" to Modify MANOP and/or Legend.
 - Highlight Entry and Select "Delete" to Remove Entry From A/N Catalog.
 - Select "Apply" to Save Information to Server.

UNIT 4: SYSTEM MANAGER

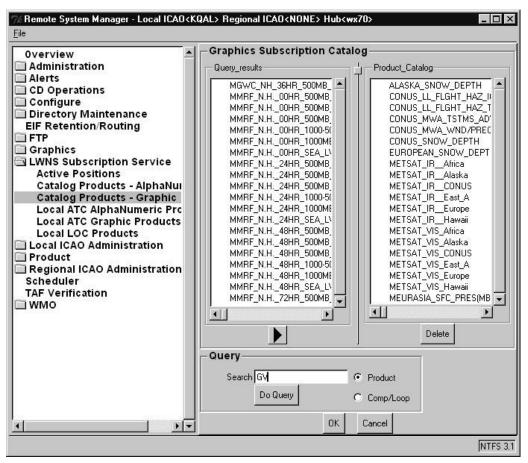


Catalog Products - AlphaNumeric

UNIT 4: SYSTEM MANAGER

- Remote System Manager (RSM).
 - LWNS Subscription Service.
 - Catalog Products Graphic Defines the Graphic Products Available for Selection from the Product Catalog.
 - Pre-Loaded With Default Graphic Catalog.
 - Select Either "Product" or "Comp/Loop" to Search.
 - Will Clear Search Field.
 - Enter 2-10 Character PID or Composite/Loop Name in Search Field.
 - Product Legend or Composite/Loop Name Will Be Used to Identify Product in Catalog and at LWNS/LOC Client.
 - Select "Do Query".

UNIT 4: SYSTEM MANAGER



Catalog Products - Graphic

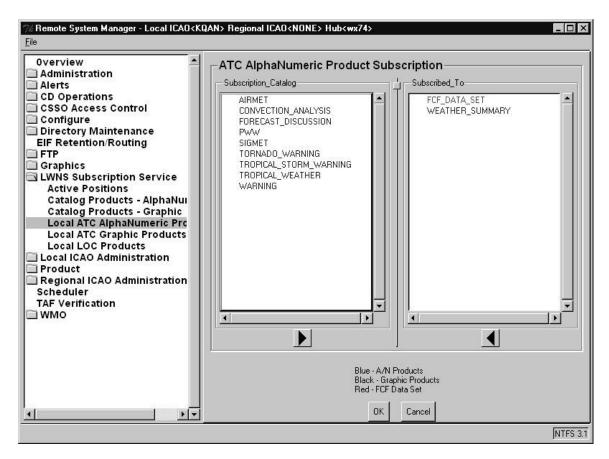
UNIT 4: SYSTEM MANAGER

- Remote System Manager (RSM).
 - LWNS Subscription Service.
 - Catalog Products Graphic Defines the Graphic Products Available for Selection from the Product Catalog.
 - Query Results Are Displayed in "Query results" Column.
 - Double-Click, or Highlight and Select "Move Right" Arrow to Move Selection to Product Catalog Column.
 - Highlight and Select "Delete" to Remove Entry From Graphic Product Catalog.
 - Select "OK" to Save Information to Server.

UNIT 4: SYSTEM MANAGER

- Remote System Manager (RSM).
 - LWNS Subscription Service.
 - Local ATC Alphanumeric Products Defines Those A/N Products From the A/N Catalog That the LWNS/ATC Clients Can Display.
 - To Select an A/N Product from the "Subscription Catalog" Column, Double-Click, or Highlight and Select "Move Right" Arrow to Move Selection to "Subscribed to" Column.
 - To Deselect an A/N Product from the "Subscribed to" Column, Double-Click, or Highlight and Select "Move Left" Arrow to Move Selection to "Subscribed Catalog" Column.
 - Select "OK" to Save to Server.

UNIT 4: SYSTEM MANAGER

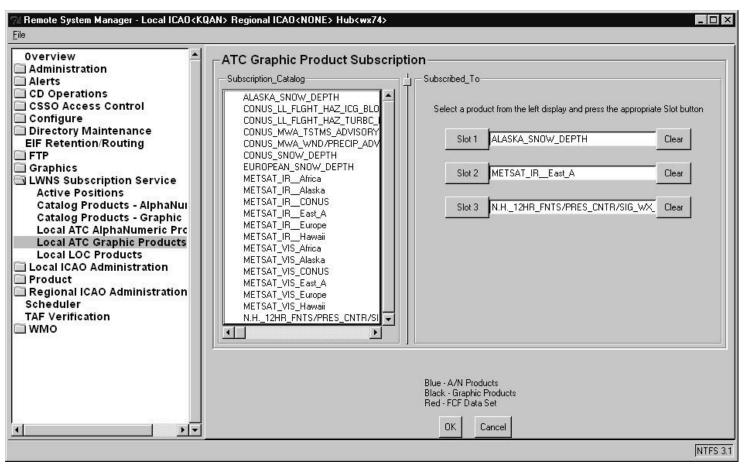


Local ATC Alphanumeric Products

UNIT 4: SYSTEM MANAGER

- Remote System Manager (RSM).
 - LWNS Subscription Service.
 - Local ATC Graphic Products Defines Those Graphic Products From the Graphics Catalog That the LWNS/ATC Clients Can Display.
 - Up to 3 Graphics Products Can be Selected.
 - LWNS/ATC's Only Have Three Possible "Slots" to Display Graphics Products.
 - To Select a Graphic Product from the "Subscription Catalog" Column, Highlight and Select Which Slot to Display the Product.
 - To Deselect a Graphic Product from the "Subscribed To" Column, Select "Clear", or Select Another Graphic Product and Repeat the Selection Process.
 - Select "OK" to Save to Server.

UNIT 4: SYSTEM MANAGER

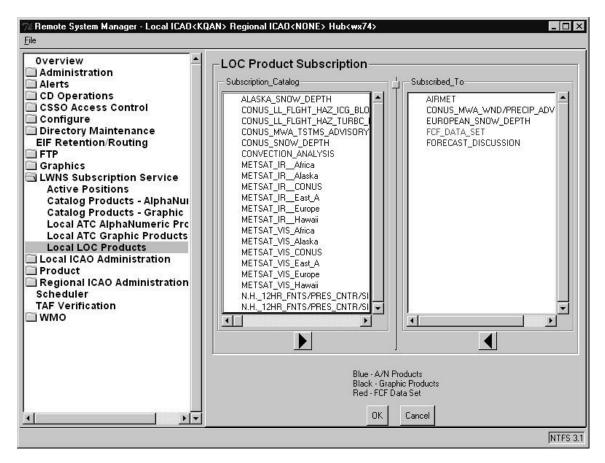


Local ATC Graphic Products

UNIT 4: SYSTEM MANAGER

- Remote System Manager (RSM).
 - LWNS Subscription Service.
 - Local LOC Products. Defines Those A/N and Graphic Products From the A/N and Graphic Catalog That the LWNS/LOC Clients Can Choose and Display.
 - To Select Product from the "Subscription Catalog" Column, Double-Click, or Highlight and Select "Move Right" Arrow to Move Selection to "Subscribed to" Column.
 - To Deselect Product from the "Subscribed to" Column, Double-Click, or Highlight and Select "Move Left" Arrow to Move Selection to "Subscribed Catalog" Column.
 - Select "OK" to Save to Server.

UNIT 4: SYSTEM MANAGER

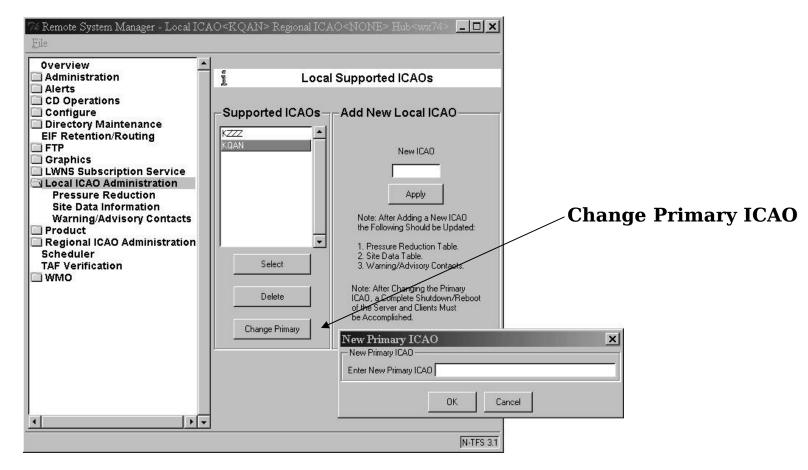


Local LOC Products

UNIT 4: SYSTEM MANAGER

- Remote System Manager (RSM).
 - Local ICAO Administration.
 - Added Capability to Change the Default Primary Local ICAO.
 - Selection Available Only at the NTFS Server.
 - Select "Change Primary".
 - New Primary ICAO Panel is Displayed.
 - Enter New ICAO in "Enter New Primary ICAO".
 - Select "OK".
 - Perform a Shutdown and Reboot of the NTFS Server, C/DM, and All Clients.
 - Use This Capability Only When Directed by AFWA.

UNIT 4: SYSTEM MANAGER



Local Supported ICAOs

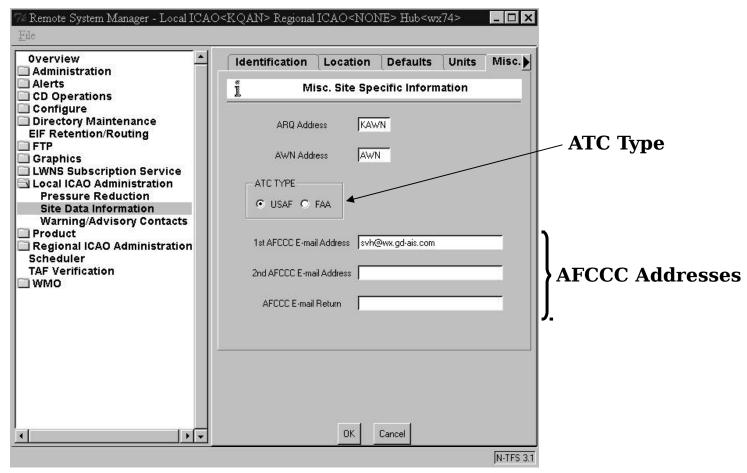
UNIT 4: SYSTEM MANAGER

- Remote System Manager (RSM).
 - Local ICAO Administration->Site Data Information.
 - Under "Misc." Tab, Added "ATC TYPE" Selection (for Default ICAO Only).
 - "FAA" or "USAF" Options Available.
 - "FAA" LWNS/ATC's Will Display and Merge Received External Observations Converted to Local Format (i.e., Stand-Alone LWNS Servers).
 - "USAF" LWNS/ATC's Will Display and Merge Local Observations as Done Today.

UNIT 4: SYSTEM MANAGER

- Remote System Manager (RSM).
 - Local ICAO Administration->Site Data Information.
 - Under "Misc." Tab, Added AFCCC Email Addresses Entries for Form 3813 Information Transmission.
 - Enter Primary and Secondary AFCCC Email Address in "1st AFCCC E-mail Address" and "2nd AFCCC E-mail Address" Fields.
 - Enter From Email Address in "AFCCC E-mail Return" Field.

UNIT 4: SYSTEM MANAGER



ATC Type Selection

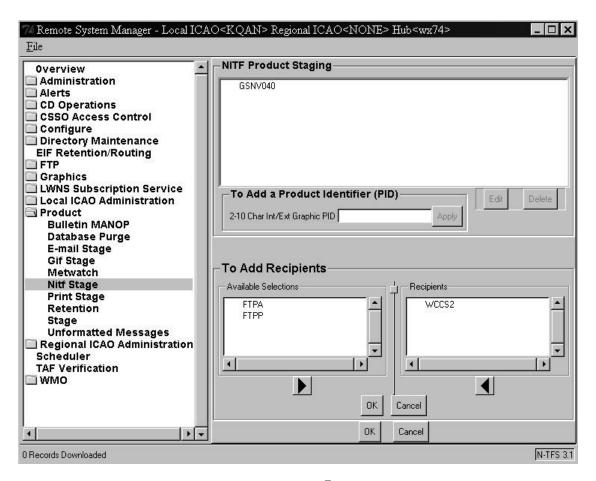
UNIT 4: SYSTEM MANAGER

- Remote System Manager (RSM).
 - Product->Nitf Stage.
 - Allows Products to be Automatically Transmitted in National Imagery Transmission Format (NITF).
 - Enter 2-10 Character Internal or External Graphic PID in "2-10 Char Int/Ext Graphic PID" Field.
 - Only Image and Vector Graphic Product PIDs are Allowed (i.e., GV, GS, DS, etc).
 - Select "Apply".
 - The "To Add Recipients" Panel Appears.
 - Only Destinations Configured for NITF Format are Listed.

UNIT 4: SYSTEM MANAGER

- Remote System Manager (RSM).
 - Product->Nitf Stage.
 - Allows Products to be Automatically Transmitted in National Imagery Transmission Format (NITF).
 - To Select Destination from the "Available Selections" Column, Double-Click, or Highlight and Select "Move Right" Arrow to Move Selection to "Recipients" Column.
 - To Deselect Destination from the "Recipients"
 Column, Double-Click, or Highlight and Select "Move Left" Arrow to Move Selection to "Available Selections" Column.
 - Select "OK" to Save to Server.
 - To Edit PID, Highlight PID and Select "Edit".
 - To Delete PID, Highlight PID and Select "Delete".

UNIT 4: SYSTEM MANAGER

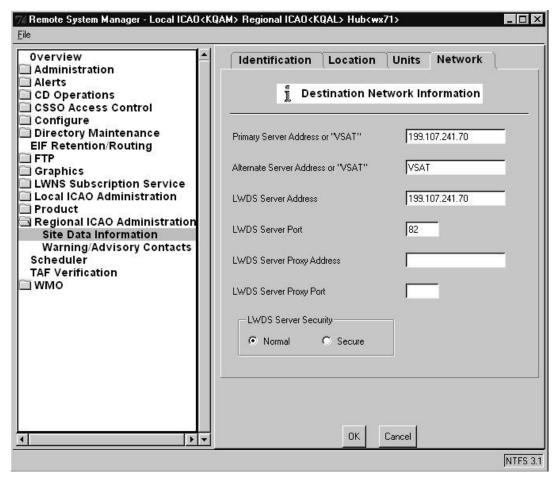


NITF Product Stage

UNIT 4: SYSTEM MANAGER

- Remote System Manager (RSM).
 - Regional ICAO Administration->Site Data Information.
 - Under "Network" Tab, Added LWDS Server IP Addresses and Port Number Entries for Retrieving CWT LWDS.
 - Enter LWDS Server Address (CWT) and Port (CWT) in "LWDS Server Address" and "LWDS Server Port" Fields.
 - Enter LWDS Server Proxy Address (CWT) and Port (CWT) in "LWDS Server Proxy Address" and "LWDS Server Proxy Port" Fields (Optional).
 - Select "Normal" (Non-SSL) or "Secure" (SSL) for LWDS Server Security Setting (CWT).

UNIT 4: SYSTEM MANAGER

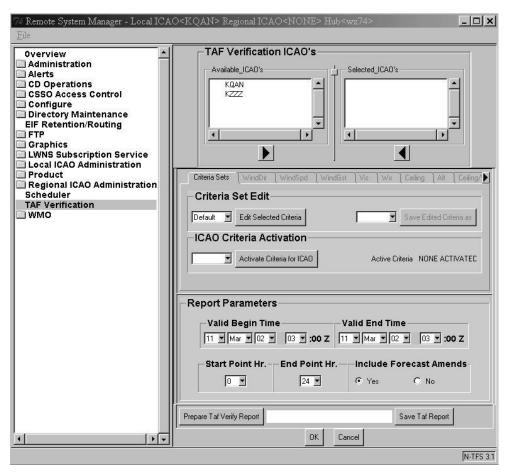


LWDS Server Configuration

UNIT 4: SYSTEM MANAGER

- Remote System Manager (RSM).
 - TAF Verification.
 - To Select ICAO from the "Available_ICAO's" Column, Double-Click, or Highlight and Select "Move Right" Arrow to Move Selection to "Selected ICAO's" Column.
 - To Deselect ICAO from the "Selected_ICAO's" Column, Double-Click, or Highlight and Select "Move Left" Arrow to Move Selection to "Available_ICAO's" Column.
 - Highlight Desired ICAO in the "Selected_ICAO's" Column, Editing Buttons Become Active.

UNIT 4: SYSTEM MANAGER

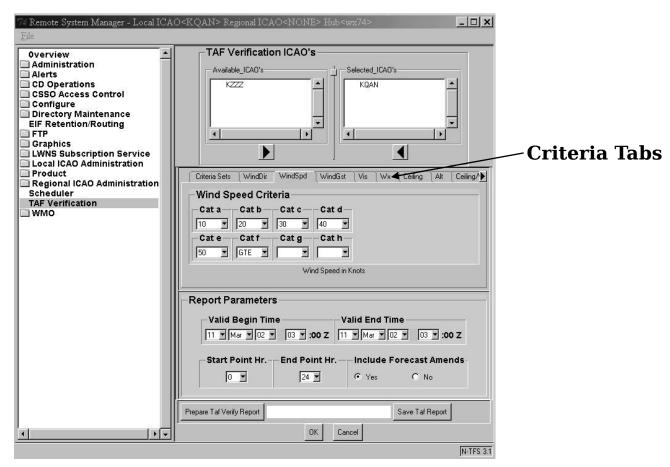


TAF Verification

UNIT 4: SYSTEM MANAGER

- Remote System Manager (RSM).
 - TAF Verification.
 - Criteria Set Edit. Allows Prefined Criteria Sets to be Edited and Saved as up to 5 Unique Criteria Sets.
 - From the **Edit Selected Criteria** Pull-Down List, Select a Predefined Criteria Set, and Select the **Edit Selected Criteria** Button, the Criteria Tabs Become Active.
 - In the Criteria Tabs, Configure the Desired Parameters with the Required Criteria.
 - For the "Ext/Int" Tab, Select to Use External (AWN-Comebacks) or Internal (Local) Observations, Select "Set Type of TAF/OBS to use".
 - From the **Save Edited Criteria as** Pull-Down, Select a User-Defined Criteria Name to Save the Criteria.

UNIT 4: SYSTEM MANAGER



TAF Verification

UNIT 4: SYSTEM MANAGER

- Remote System Manager (RSM).
 - TAF Verification.
 - ICAO Criteria Activation. Activates Which Criteria Set is Used During the Verification.
 - From the **Activate Criteria for ICAO** Pull-Down, Select the Criteria to be Used for the Verification.
 - Select **Activate Criteria for ICAO**, the Active Criteria Will be Displayed.

UNIT 4: SYSTEM MANAGER

- Remote System Manager (RSM).
 - TAF Verification.
 - Report Parameters. Defines the Forecast Time Period of the Verification.
 - Select the "Valid Begin Time" and "Valid End Time" for the Verification Report.
 - Select the "Start Point Hr." and "End Point Hr." for the Forecast Hour Range of Each TAF Included in the Verification.
 - To Perform a Single Point Forecast Verification Report, Configure Both Hours With the Same Value.
 - Select **Yes** or **No** if Forecast Amendments are Included in the Verification.

UNIT 4: SYSTEM MANAGER

- Remote System Manager (RSM).
 - TAF Verification.
 - Select **Prepare Taf Verify Report** to Perform the Verification Using the ICAO(s) and Parameters Configured.
 - May Take Several Minutes.
 - An Urgent Alert Will be Displayed at the NTFS Client Launch Pad When the Report is Completed.
 - To Save the Report Data, Select **Save Taf Report**, the "Save As" Window is Display.
 - Enter Unique Name, and Select **Save**.
 - Available Only at the NTFS Client.

UNIT 4: SYSTEM MANAGER

- Remote System Manager (RSM).
 - TAF Verification.
 - To View the Report, Display in a Spreadsheet Application (i.e., Excel), Using Comma Delimited Fields.
 - Refer to NTFS 3.1.1 Users Manual for Explanation of Fields, Skill Scores, and Rules.

UNIT 4: SYSTEM MANAGER

	А	В	С	D	Е	F	G	Н	I	J	K	L	M	N	0	P f
1	KLAX using Default Forecast: 26-Nov-01-01 Verification Hours: 00-23															Ť.
2	Parameter	Cat	Value	F-YY	F-YN	F-NY	F-NN	P-YY	P-YN	P-NY	P-NN	TOT-F	F-HITS	P-HITS	FA	PA
3	alt	а	0.05	2	0	22	0	0	2	0	22	24	2	22	0.08	0.92
4	ceil	а	200	1	5	1	17	6	0	18	0	24	18	6	0.75	0.25
5	ceil	b	1000	1	4	8	11	0	5	0	19	24	12	19	0.5	0.79
6	ceil	С	3000	1	3	1	19	0	4	0	20	24	20	20	0.83	0.83
7	ceil	d	GTE	3	6	8	7	0	9	0	15	24	10	15	0.42	0.62
8	combo	а	0200/0800	0	18	0	6	0	18	0	6	24	6	6	0.25	0.25

TAF Verification Report

UNIT 5: CSSO

UNIT 5: CSSO

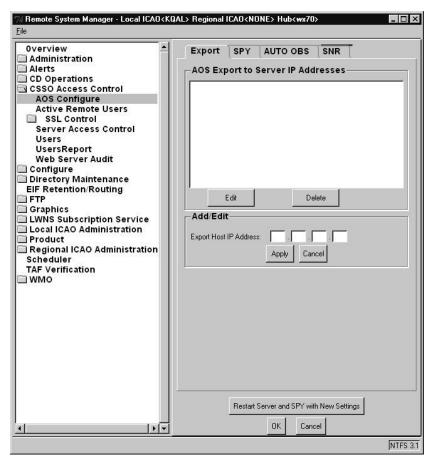
· CSSO.

- CSSO Access Control->AOS Configure.
 - Added "AUTO OBS" and "SNR" Tabs.
 - Changed "Server" Tab to "Export" Tab.
 - Removed "TACMET"/"STANDARD" Toggle.
 - Moved SNR Source Entry Information to "SNR" Tab.
- If Any Information Is Changed in Any AOS Configure Tab, Select "Restart Server and SPY with New Settings".

UNIT 5: CSSO

- · CSSO.
 - CSSO Access Control->AOS Configure.
 - **Export** Tab Defines Those NTFS Servers (OWS) Allowed to Retrieve Your (CWT) AOS Data.
 - Enter the IP Address(es) in "Export Host IP Address" Fields.
 - Highlight Entry and Select "Edit" to Modify IP Address(es).
 - Highlight Entry and Select "Delete" to Remove IP Address(es).
 - Select "Apply" to Add Information to Address List.
 - Select "OK" to Save to Server.

UNIT 5: CSSO



AOS Configure->Export

UNIT 5: CSSO

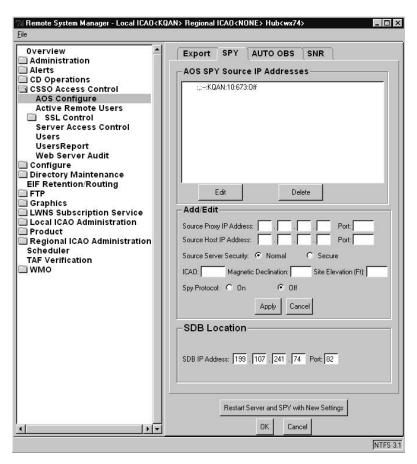
· CSSO.

- CSSO Access Control->AOS Configure.
 - For OWS's, the **SPY** Tab Defines Those NTFS Servers (CWT's) Which Your Server (OWS) Will Retrieve AOS Data (Using the "Spy" Program).
 - For CWT's, the **SPY** Tab Defines the ICAO of the AOS Data Received From Your Sensor (SNR), or Data Collection Unit (DCU) Computer.
 - For Both OWS's and CWT's, the SPY Tab Also Defines the Location of the Sensor Database (SDB).

UNIT 5: CSSO

- · CSSO.
 - CSSO Access Control->AOS Configure.
 - **SPY** Tab (OWS) Defines Those NTFS Servers (CWT's) Which Your Server (OWS) Will Retrieve AOS Data (SPY).
 - Enter the CWT Proxy IP Address in "Source Proxy IP Address" Fields (Optional).
 - Enter the CWT Proxy Port Number in "Port" Field (Optional).
 - Enter the CWT IP Address in "Source Host IP Address" Fields.
 - Enter the CWT Port Number in "Port" Field.
 - Select Normal if CWT is Not Using SSL, or Secure if CWT Server is Using SSL.
 - Enter the ICAO, Magnetic Declination, and Site Elevation of Each CWT ICAO You Will Receive AOS Data.

UNIT 5: CSSO



SPY IP Address(es)ICAO Entry

SDB IP Address

AOS Configure->SPY

UNIT 5: CSSO

- · CSSO.
 - CSSO Access Control->AOS Configure.
 - **SPY** Tab (OWS) Defines Those NTFS Servers (CWT's) Which Your Server (OWS) Will Retrieve AOS Data (SPY).
 - Turn Spy Protocol "On" (OWS).
 - Select "Apply" to Add Information to Address List.
 - Define the IP Address of the Sensor Database (SDB)
 Where the AOS Data is Stored (Usually Your Own NTFS Server).
 - Enter the (OWS) IP Address in "SDB IP Address" Fields.
 - Enter the (OWS) Port Number in "Port" Field.
 - Select "OK" to Save to Server.

UNIT 5: CSSO

- · CSSO.
 - CSSO Access Control->AOS Configure.
 - **SPY** Tab (CWT) Defines the ICAO of the AOS Data Received From Your Sensor (SNR), or Data Collection Unit (DCU) Computer.
 - Enter the ICAO, Magnetic Declination, and Site Elevation of Your ICAO.
 - Turn Spy Protocol "Off" (CWT's).
 - Select "Apply" to Add Information to Address List.

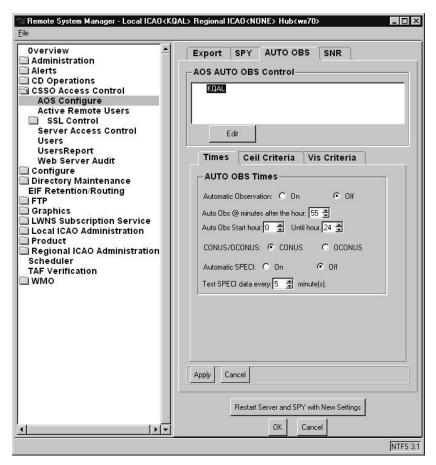
UNIT 5: CSSO

- · CSSO.
 - CSSO Access Control->AOS Configure.
 - **SPY** Tab (CWT) Defines the ICAO of the AOS Data Received From Your Sensor (SNR), or Data Collection Unit (DCU) Computer.
 - Define the IP Address of the Sensor Database (SDB) Where the AOS Data is Stored (Usually Your Own NTFS Server).
 - Enter the IP Address in "SDB IP Address" Fields.
 - Enter the Port Number in "Port" Field.
 - Select "OK" to Save to Server.

UNIT 5: CSSO

- · CSSO.
 - CSSO Access Control->AOS Configure.
 - **AUTO OBS** Tab Controls the Creation of Automatic Observations From AOS Data.
 - Highlight ICAO to Create Automatic Observations From Sensor Data, Select **Edit**.
 - **Times** Tab Controls the Basic Creation Function.
 - Select Whether Automatic Observation Generations are To be "On" or "Off" (Default is "Off").
 - Enter When the Auto-Obs METAR is to Be Generated in Minutes Past the Hour (Default is "55" Minutes).
 - Define the Period of the Day When Auto-Obs METARs are to Be Generated.
 - Start Hour and Until Hour (Default is "0000" to "2400").

UNIT 5: CSSO



AOS Configure->AUTO OBS->Times

UNIT 5: CSSO

- · CSSO.
 - CSSO Access Control->AOS Configure.
 - **Times** Tab Controls the Basic Creation Function.
 - Select Whether Observation is CONUS or OCONUS.
 - Used for Unit Selection in TACMET Interface.
 - Select Whether Automatic SPECI Observation Generations are To be "On" or "Off" (Default is "Off").
 - Select Interval to Test for SPECI Criteria
 - If Met, a SPECI Observation is Transmitted.
 - Select "Apply" to Add Information to Address List.
 - Select "OK" to Save to Server.

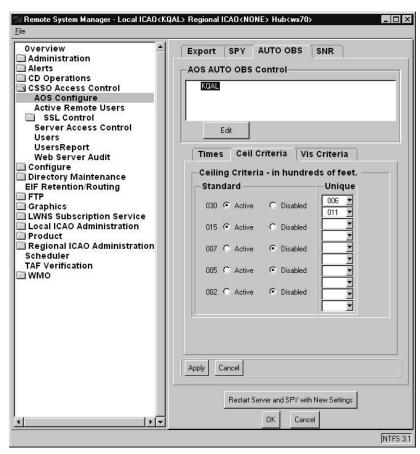
UNIT 5: CSSO

- · CSSO.
 - CSSO Access Control->AOS Configure.
 - **Times** Tab Controls the Basic Creation Function.
 - Observation is Transmitted to Whatever Default Transmit Destination is Configured.
 - RSM->Configure->Transmit Destinations.
 - For Standard AOS Configuration, Only PRESSURE, WINDS, TMP/DPT is Formatted and Transmitted.

UNIT 5: CSSO

- · CSSO.
 - CSSO Access Control->AOS Configure.
 - **Ceil Criteria** Tab Controls the SPECI Tests Perform for Ceiling.
 - Select Active or Disabled for the Standard Set of Ceiling Criteria.
 - Select Unique Ceiling Criteria from Pulldown List.
 - Select "Apply" to Add Information to Address List.
 - Select "OK" to Save to Server.

UNIT 5: CSSO

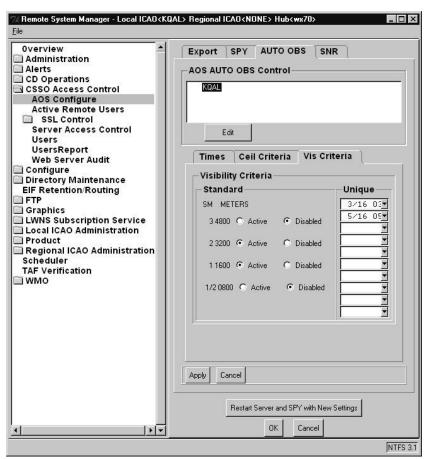


AOS Configure->AUTO OBS->Ceil Criteria

UNIT 5: CSSO

- · CSSO.
 - CSSO Access Control->AOS Configure.
 - **Vis Criteria** Tab Controls the the SPECI Tests Perform for Visibility.
 - Select Active or Disabled for the Standard Set of Visibility Criteria.
 - Select Unique Visibility Criteria from Pulldown List.
 - Select "Apply" to Add Information to Address List.
 - Select "OK" to Save to Server.

UNIT 5: CSSO

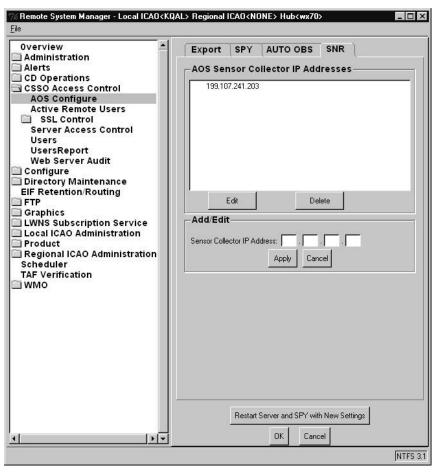


AOS Configure->AUTO OBS->Vis Criteria

UNIT 5: CSSO

- · CSSO.
 - CSSO Access Control->AOS Configure.
 - **SNR** Tab Defines Location of SNR/DCU Computer.
 - Enter the SNR IP Address in "Sensor Collector IP Address" Fields.
 - Highlight Entry and Select "Edit" to Modify SNR IP Address.
 - Highlight Entry and Select "Delete" to Remove SNR IP Address.
 - Select "Apply" to Add Information to Address List.
 - Select "OK" to Save to Server.

UNIT 5: CSSO



AOS Configure->SNR

UNIT 5: CSSO

· CSSO.

- Secure Socket Layer (SSL) and Secure HTTP (S-HTTP).
 - SSL Uses a Technique Called Public Key Encryption That Uses a Pair of Asymmetric Keys for Encryption and Decryption.
 - Each Pair of Keys Consists of a Public Key (Obtained From a Certificate Created by an Outside Agency) and a Private Key (Created Locally).
 - The Public Key is Made Public by Distributing it Widely. The Private Key is Never Distributed; it is Always Kept Secret.
 - Data That is Encrypted With the Public Key Can Only be Decrypted With the Private Key, and Vice Versa.

UNIT 5: CSSO

· CSSO.

- Secure Socket Layer (SSL) and Secure HTTP (S-HTTP).
 - The Secure Version of HTTP Uses URLs That Begin With "https" Rather Than "http", and a Different Server Port (by Default, Port 443).
 - SSL is Designed to Establish a Secure Connection Between Two Computers, While S-HTTP is Designed to Send Information Securely.

UNIT 5: CSSO

· CSSO.

- Secure Socket Layer (SSL) and Secure HTTP (S-HTTP).
 - NTFS Clients Don't Support Client-Server Authentication Using SSL.
 - NTFS Uses SSL for Encryption Purposes Only.
 - Using a Browser Will Require the User to Accept the Server Certificate Before Any Data Transfers are Allowed.
 - Identical to JAAWIN Logins.

UNIT 5: CSSO

· CSSO.

- Obtaining an SSL Public-Key Server Certificate.
 - Create a Server Private Key and Certificate Signing Request (CSR).
 - Export CSR to Floppy Disk From NTFS Server.
 - Request a Server Certificate From the DoD Public-Key Infrastructure (PKI) Web Site.
 - Import PKI Certificate into NTFS Server From Floppy Disk.

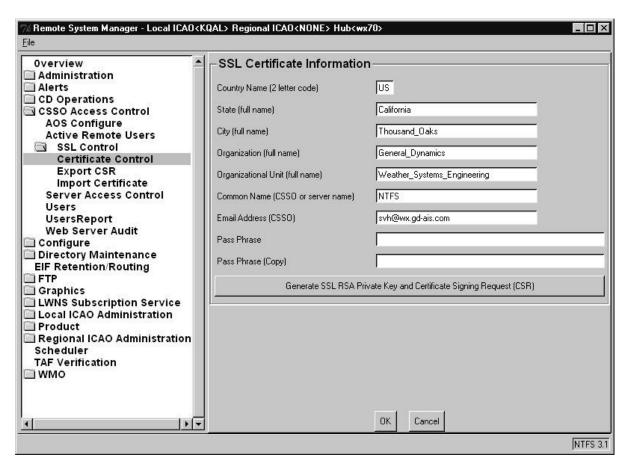
UNIT 5: CSSO

- · CSSO.
 - CSSO Access Control->SSL Control.
 - Certificate Control.
 - Export CSR.
 - Import Certificate.

UNIT 5: CSSO

- · CSSO.
 - CSSO Access Control->SSL Control.
 - Certificate Control.
 - Enter Required Information as Stated in the Field Prompts.
 - Country Name 2-Letter Code (e.g., US).
 - State Name Full Name (e.g., Nebraska).
 - City Full Name (e.g., Bellevue).
 - Organization Full Name (e.g., United States Air Force).
 - Organizational Unit Full Name (e.g., Air Force Weather Agency).

UNIT 5: CSSO



Certificate Control

UNIT 5: CSSO

- · CSSO.
 - CSSO Access Control->SSL Control.
 - Certificate Control.
 - Enter Required Information as Stated in the Field Prompts.
 - Common Name CSSO or Server Name (e.g., NTFS). This is the Name the Certificate Will Be Listed.
 - E-Mail Address Enter E-Mail Address to Notify When the Certificate is Completed.
 - Pass Phrase Create Pass Phrase Using Standard NTFS Password Rules (Used to Initiate SSL on the NTFS Server).

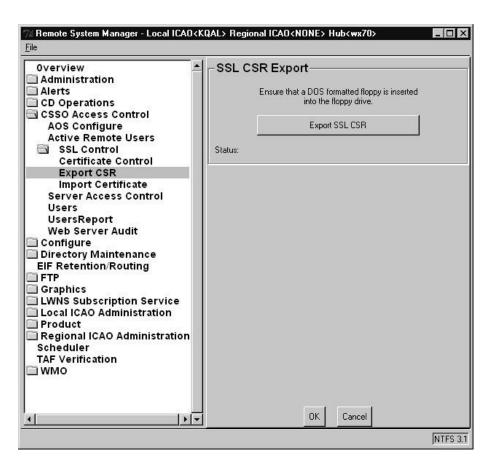
UNIT 5: CSSO

- · CSSO.
 - CSSO Access Control->SSL Control.
 - Certificate Control.
 - Select "Generate SSL RSA Private Key and Certificate Signing Request (CSR)" to Generate Required Files.
 - server.key Private Key.
 - server.csr CSR.
 - Must Obtain a New Certificate if Another server.key is Generated.

UNIT 5: CSSO

- · CSSO.
 - CSSO Access Control->SSL Control.
 - Export CSR.
 - Insert DOS Formatted Floppy into Floppy Drive.
 - Select "Export SSL CSR".
 - server.csr Will Be Copied to the Floppy.
 - Status Will Display "Write Successful".
 - Floppy Will Eject Automatically (Manually Eject for Linux, E4500, and SS60 Servers).

UNIT 5: CSSO



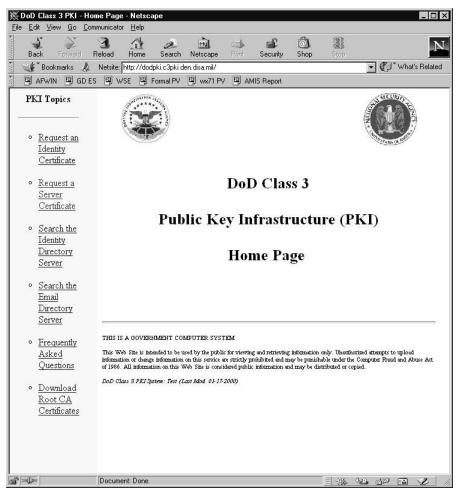
Export CSR

UNIT 5: CSSO

· CSSO.

- From a Browser, Login to DoD Public Key Infrastructure (PKI) Web Site (e.g., http://dodpki.c3pki.den.disa.mil).
 - Select "Request a Server Certificate".
 - From WordPad, Display server.csr File From Floppy.
 - Copy/Paste CSR into "PKCS #10 Request" Area.
 - Only Area Bounded by BEGIN/END CERTIFICATE REQUEST, Including All Leading and Trailing Dashes.
 - Fill-in Name, E-Mail Address, and Phone Number Information.
 - Select "Submit".

UNIT 5: CSSO



DoD PKI Web Page

UNIT 5: CSSO

```
Certificate Request:
                   Data:
                       Version: 0 (0x0)
                       Subject: C=US, ST=California, L=Thousand Oaks,
               O=General Dynamics, OU=Weather Systems Engineering,
               CN=AMIS/Email=svh@wx.qd-es.com
                       Subject Public Key Info:
                           Public Key Algorithm: rsaEncryption
                           RSA Public Key: (1024 bit)
                               Modulus (1024 bit):
                                   00:cc:f5:57:fa:81:6f:1f:86:36:d5:37:a7:a9:0f:
                                   6b:44:c2:90:86:6e:5f:83:ae:9f:21:38:90:78:77:
                                   9a:b4:42:95:d2:ac:ee:e3:1b:78:69:f0:1c:1f:7b:
                                   e4:d1:a6:fa:2d:b7:ec:cc:a9:62:7a:1d:dc:45:96:
                                   62:4b:94:04:f9:70:d9:ba:91:37:9d:54:b1:78:ee:
                                   c3:3d:f2:90:d5:3e:28:a3:97:f5:b5:01:12:08:3b:
                                   32:df:c8:6f:6c:5a:6f:58:32:60:81:af:b0:17:2d:
                                   30:46:c3:0e:40:0c:26:03:20:94:13:8d:e9:8d:8f:
                                   23:f5:d0:91:21:23:44:db:1f
                               Exponent: 65537 (0x10001)
                       Attributes:
                           a0:00
                   Signature Algorithm: md5WithRSAEncryption
                       62:67:a9:db:8f:3e:3b:56:87:2e:86:4d:36:26:ff:47:90:06:
                       48:a7:85:d3:6d:a0:d4:16:09:9c:29:42:00:39:7b:57:47:0b:
                       le:50:b0:26:0c:3b:50:b0:9e:d0:44:4c:bc:fa:df:d7:b5:fe:
                       27:c7:6e:ca:d7:96:cf:61:a6:42:b1:a1:a9:5c:b0:dd:ee:f8:
                       6c:64:a2:c3:cb:19:e9:70:e3:5e:ce:7a:32:02:3c:ff:24:62:
                       df:32:e3:0c:02:e4:56:f6:af:d3:66:3d:46:4f:9f:b6:c6:c1:
                       a0:56:d7:c5:6e:1c:98:27:88:b8:83:d6:d1:51:93:7a:b8:5a:
                       a3:43
                ----BEGIN CERTIFICATE REQUEST----
               MIIB7DCCAVUCAQAwgasxCzAJBgNVBAYTA1VTMRMwEQYDVQQIEwpDYWxpZm9ybm1h
               MRYwFAYDVQQHFA1UaG91c2FuZF9PYWtzMRkwFwYDVQQKFBBHZW51cmFsXOR5bmFt
               aWNzMSQwIgYDVQQLFBtXZWFOaGVyX1N5c3RlbXNfRW5naW51ZXJpbmcxDTALBgNV
               BAMTBEFNSVMxHzAdBgkqhkiG9wOBCQEWEHN2aEB3eC5nZC1lcy5jb2OwgZ8wDQYJ
               KoZIhvcNAQEBBQADgYOAMIGJAoGBAMz1V/qBbx+GNtU3p6kPaOTCkIZuX4OunyE4
Copy
               kHh3mrRCldKs7uMbeGnwHB975NGm+i237MypYnod3EWWYkuUBP1w2bqRN51UsXju
               wz3ykNU+KKOX9bUBEgg7Mt/Ib2xab1gyYIGvsBctMEbDDkAMJgMg1BON6Y2PI/XQ
               kSEjRNsfAgMBAAGgADANBgkqhkiG9w0BAQQFAAOBgQBiZ6nbjz47Vocuhk02Jv9H
               kAZIp4XTbaDUFgmcKUIAOXtXRwseULAmDDtQsJ7QREy8+t/Xtf4nx27K15bPYaZC
               saGpXLDd7vhsZKLDyxnpcONeznoyAjz/JGLfMuMMAuRW9q/TZj1GT5+2xsGgVtfF
               bhvYJ4i4a9bRUZN6uFaiQw==
               ----END CERTIFICATE REQUEST----
```

CSR (server.csr)

UNIT 5: CSSO

	幾 Request a 9	erver Certificate	- Netscape							×
	<u>File Edit View</u>	Go Communicate	or <u>H</u> elp							
	Back F	orward Reload	Home Search	My Netscape	Print :		Shop S	top		V.
	Bookm	arks 🎉 Netsite:	https://ca-4.c3pki.de	en.disa.mil/Man	ServerEnroll.	html		- C	🎵 What's Relate	ed
	AFWIN	☐ GD ES ☐ V	/SE 🖳 Formal PV	☑ wx71 PV	AMIS	Report				101
	Use this form server, create you are reque Certificate.	to submit a reque a PKCS#10 reque sting the certificat	ollment (for set for a server cer est for a server cer est by using the Ne e. In the Netscape	cificate. You n tscape Admin Administratio	nust subm iistration S on Server f	it a PKCS # erver instar orms, choo	nce associat se Encryptio	ed with the ser on, then Reque	rver for which est Server	•
	have.	using a Netscape	server, follow the	appropriate s	teps to ge	nerate a Pr	CS #1U red	uest with the s	erver you	
		the Submit buttor mail when it has b	n, your request will been approved.	be submitte	d to an iss	uing agent	for approva	l. You will rece	ive the	
	PKCS #10 Re Paste the PK	quest CS #10 request in:	to this text area.							
Ţ										
Paste CSR										
•	Samer Admir	nistrator Contact :	Information					-		
٠,	Name:	iisa aan comacc								
	Email:									
Complete	/UNIOCH TOUR									
	Phone:									
L	397									
	Additional Co		ments for the per:	on who will p	rocess you	r certificate	request, w	ite them here.		
								A		
		D	ent Done					NN 11-20 4.6		•
		Juocum	eni. Done							11.

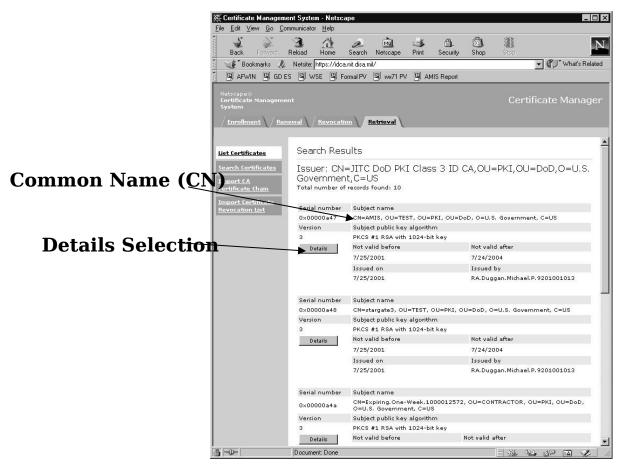
DoD PKI Web Page

UNIT 5: CSSO

· CSSO.

- From Returned E-Mail, Follow Links to Display Certificate using Serial Number and Common Name to Identify.
 - Select "Details" to View Certificate.
- Copy/Paste Certificate into WordPad.
 - Only Area Bounded by BEGIN/END CERTIFICATE, Including All Leading and Trailing Dashes.
- Save to DOS Formatted Floppy as a .txt File Named "server.crt".

UNIT 5: CSSO



Returned E-Mail Link

UNIT 5: CSSO

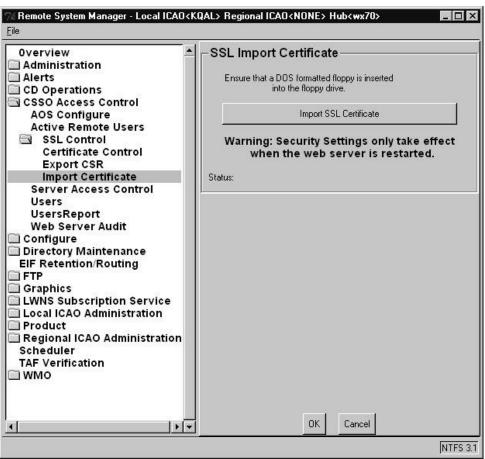
	Certificate 0x0a47
	Certificate contents
	Certificate:
	Data:
	•
	•
	Installing this certificate in a server
	The following format can be used to install this certificate into a Netscape server.
- /	BEGIN CERTIFICATE
	MIID7TCCA1agAwIBAgICCkcwDQYJKoZIhvcNAQEFBQAwaDELMAkGA1UEBhMCVVMx
	GDAWBGNVBAOTD1UuUy4gR292ZXJubWVudDEMMAOGA1UECxMDRG9EMQwwCgYDVQQL
	EWNQSORXIZAHBGNVBANTGRpJVENGRG9EIFBLSSBDbGFzcyAzIEIEIENBNB4XDTAX MDcyNTE4NDNyN1oXDTAONDcyNDE4NDNyN1owYTELNARGA1UEBhNCVVNXGDAWBGNV
	BAOTD1UuUy4gR292ZXJubWVudDEMMAoGA1UECxMDRG9EMQwwCgYDVQQLEwNQSOkx
	DTALBgNVBAsTBFRFU1QxDTALBgNVBAMTBEFNSVMwgZ8wDQYJKoZIhvcNAQEBBQAD qYOAMIGJAoGBALla+Vf2T+t7buv3Uyq1skLsfNBwn25QTrQ8K7vUngduq1WJz/8q
	3ioxHJhAzOnAtRD+sLzHOtpBqmFbWOcbAOhX+fIgfYEfe1EDmfDzJ73OrreWmKTP
	A6tY07xI4tl1o1czfor53WIwEsDgM1a1KrtViIWrX9nwR+EFgkTGz1z5AgMBAAGj ggGrMIIBpzAdBgNVHQ4EFgQU/1N+BobBYGmPuJNnhdRibpp19UUwDgYDVROPAQH/
Conv	BAQDAgWgMIGzBgNVHR8EgaswgagwgaWggaKggZ+GgZxsZGFwOi8vaWRkcy5uaXQu
Copy	ZG1zYS5taWwvY241M2RKSVRDJTIwRG9EJTIwUEtJJTIwQ2xhc3M1MjAzJTIwSUQ1 MjBDQSUyY291JTNkUEtJJTJjb3U1M2REbOQ1MmWvJTNkVS5TL1UyMEdvdmVybm11
	bnQ1MmNjJTNkVVM/Y2VydG1maWNhdGVyZXZvY2F0aW9ubG1zdDtiaW5hcnkwHwYD
	VROjBBgwFoAU4k3Iqi4MGW+XWnRJmx1YGagYRwAwFgYDVROgBA8wDTALBglghkgB ZQIBCwUwgYYGA1UdEgR/MH2Ge2xkYXA6Ly9pZGRzLm5pdC5kaXNhLm1pbC9jb1Uz
	ZEpJVENINjBEbOQINjBQSOkINjBDbGFzcyUyNDNINjBJRCUyNENBJTJjb3UINZRQ
	SOk1MmNvdSUzZERvRCUyY281M2RVL1MuJTIwR292ZXJubWVudCUyY2M1M2RVUzAN
	BgkqhkiG9w0BAQUFAA0BgQChESiU9NRwyBfrAwQjo03Q8m5g5nrzT76CqbP6V6+E cEYUSuuE+RfKtKByUTm7cRW4zmo101/I9PEXd3MwjexsFu6223pLLINkOqjzEikv
	Sf8aUs60G7oKR3m4k3v4AEkCmi1DBTxzUjf/4yCUy2TXdq8AJjesfvhoa1lk9Xg6
1	jQ==END CERTIFICATE
•	

Certificate (server.crt)

UNIT 5: CSSO

- · CSSO.
 - CSSO Access Control->SSL Control.
 - Import Certificate.
 - Insert Floppy Containing server.crt File into Floppy Drive.
 - Select "Import SSL Certificate".
 - server.crt Will Be Copied to the Server.
 - Status Will Display "Read Successful".
 - Floppy Will Eject Automatically (Manually Eject for Linux, E4500, and SS60 Servers).

UNIT 5: CSSO

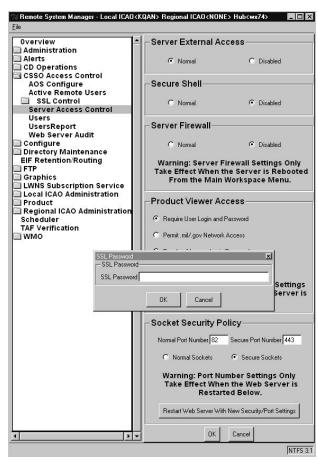


Import Certificate

UNIT 5: CSSO

- · CSSO.
 - Configuring the Server to Use SSL.
 - CSSO Access Control->Server Access Control.
 - Select "Secure Sockets" and Enter "Port Number".
 - Use Default Port 443 Unless Directed Otherwise.
 - Select "Restart server with new Security/Port settings".
 - SSL Password Panel is Displayed.
 - Enter the Same Password as Used to Create the CSR (Pass Phrase), and Select "OK"... SSL is Now Enabled.
 - These Steps Must Be Accomplished Each Time the Web Server is Restarted, or if the NTFS Server is Rebooted.
 - The Web Server May Be Listening on the SSL Port, But Will Not Accept Any Connections Unless the Correct Password is Entered.

UNIT 5: CSSO



Server Access Control

UNIT 5: CSSO

- · CSSO.
 - CSSO Access Control->Server Access Control.
 - Added SSH Disabled/Normal Selections.
 - Must Be Allowed by Local BNCC.
 - Encryption Concerns.
 - SSH is Only Required to be Enabled When Remote Maintenance is Being Accomplished via NIPRNET.
 - Allows for Possible Removal of Netblazer Router/Modem.
 - Only Need to Select "OK" to Enable if Selected.

UNIT 5: CSSO

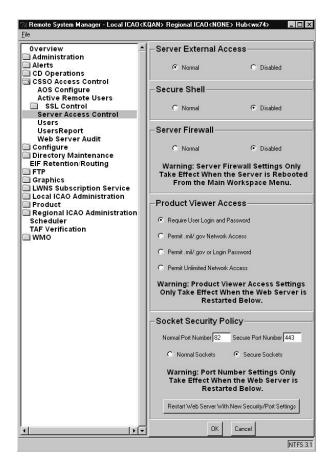
- · CSSO.
 - CSSO Access Control->Server Access Control.
 - Added Server Firewall Disabled/Normal Selections.
 - COTS Installed IP Filtering Software (Firewall).
 - Provides Protection From Unauthorized Accesses on Base LAN Port(s).
 - Disable/Enable Using Discretion of CSSO.
 - Must Shutdown and Reboot Server Before Firewall Settings are Activated.

UNIT 5: CSSO

· CSSO.

- CSSO Access Control->Server Access Control.
 - Added "Permit .mil/.gov or Login Password" Access.
 - If a User is Coming From a .mil/.gov Address,
 No Username/Password is Required,
 Otherwise a Username/Password is Required.
 - ".mil" Access Rules Changed From ".af.mil" to Just ".mil".
 - "Permit .mil/.gov Network Access".

UNIT 5: CSSO

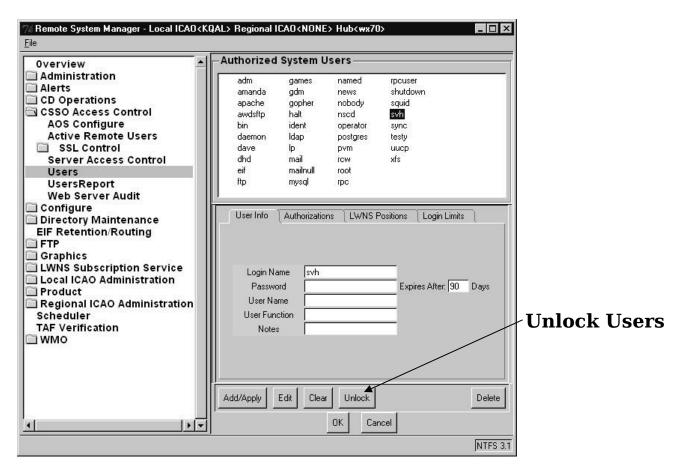


Server Access Control

UNIT 5: CSSO

- · CSSO.
 - CSSO Access Control->Users.
 - New MMI for Information ("Tabs" Format).
 - Added "Unlock" Button To Unlock "Locked-out" Users (Upon Exceeding Retry Limit).

UNIT 5: CSSO

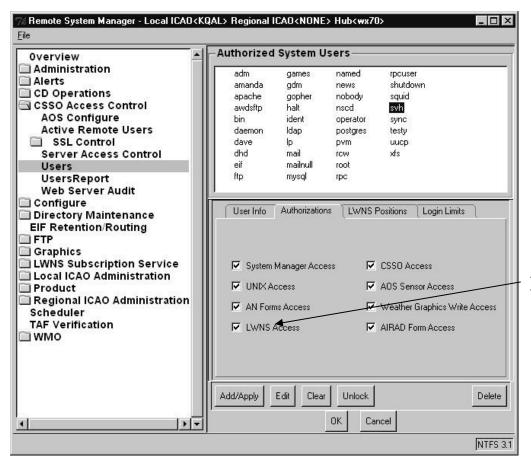


CSSO Access Control->Users

UNIT 5: CSSO

- · CSSO.
 - CSSO Access Control->Users.
 - Added "LWNS Access" Under Authorizations Tab.
 - Only Needed for Users Needing LWNS/LOC Access.

UNIT 5: CSSO



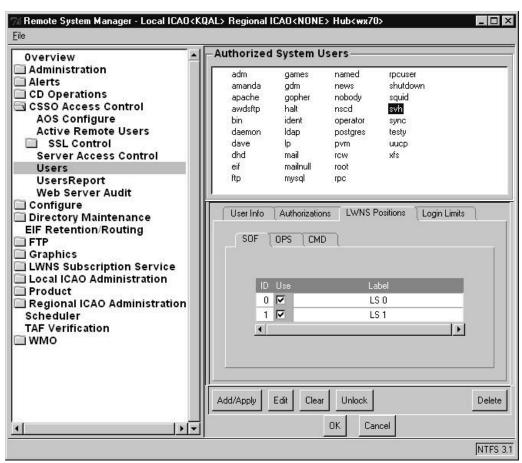
LWNS Access

Users->Authorizations

UNIT 5: CSSO

- · CSSO.
 - CSSO Access Control->Users.
 - Added "LWNS Positions" Tab.
 - Will be "Grayed-Out" Unless User Has "LWNS Access".
 - Lists LWNS/LOC Positions (SOF, OPS, and CMD)
 Defined in LWNS Subscription Service Active Positions.
 - Select All LWNS/LOC Positions User is Authorized to Login.
 - Users Given "LWNS Access" Will, by Default, Always be Granted Access Using the "NON" Position (no Alerts are Displayed, and no WW/WA Acknowledgements Allowed).

UNIT 5: CSSO

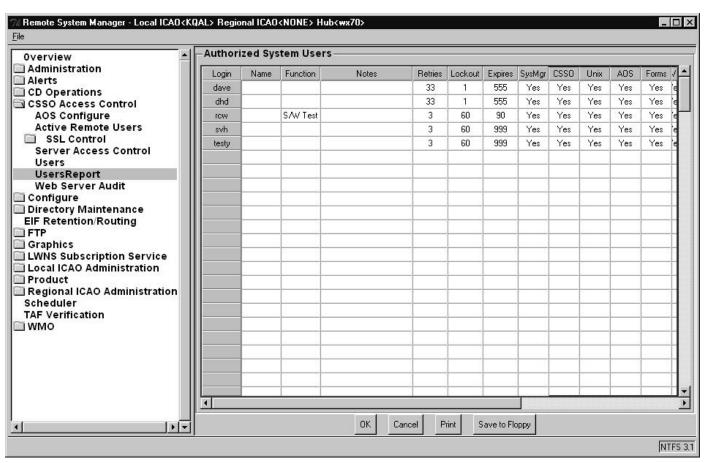


Users->LWNS Positions

UNIT 5: CSSO

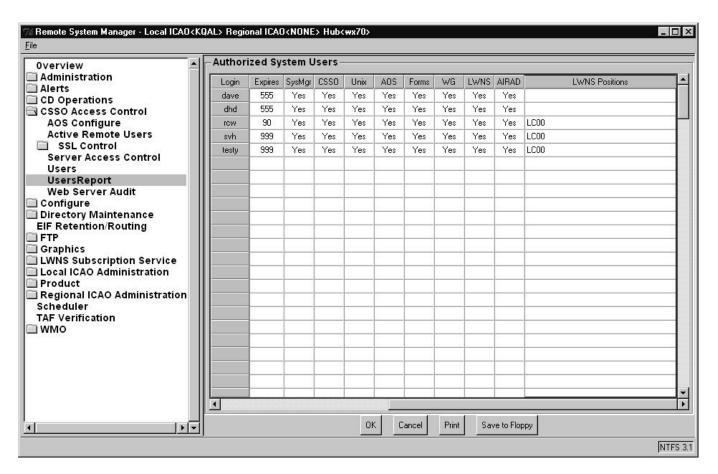
- · CSSO.
 - CSSO Access Control->Users Report.
 - Allows CSSO's to Display, Save to Floppy, or Print Defined User Information.
 - Saving to Floppy Will Save File as an Excel Importable Format.
 - Saved as "users.txt".

UNIT 5: CSSO



Users Report

UNIT 5: CSSO



Users Report

UNIT 6: A/N

UNIT 6: A/N

- Weather A/N View.
 - Added Ability to View CWT LWDS from OWS Without Logging into CWT.
 - Select Local Weather Data Set.
 - List of ICAOs in Upper-Left Displays All Configured Regional and Local ICAOs.
 - Configured in Local and Regional ICAO Administration.
 - Regional ICAO Network Settings Configured in Site Data Information->Network.
 - Select Desired ICAO to View LWDS.

UNIT 6: A/N

- Weather A/N View.
 - Added "Merged Obs Report" Selection.
 - Replicates LWNS/ATC and FCF/ATC Merged Observation Function.
 - METAR Clears Display and Starts the Merge Over Again.
 - SPECI's, LOCAL's, and AWO's Merge With Baseline METAR, With All Differences Highlighted Between Each Subsequent Observation.
 - Use "*" in the Observation Form to Remove an Element.

UNIT 6: A/N

Weather A/N View.

Local Weather Data \$et

View-by-Criteria

24 Hour Obs List

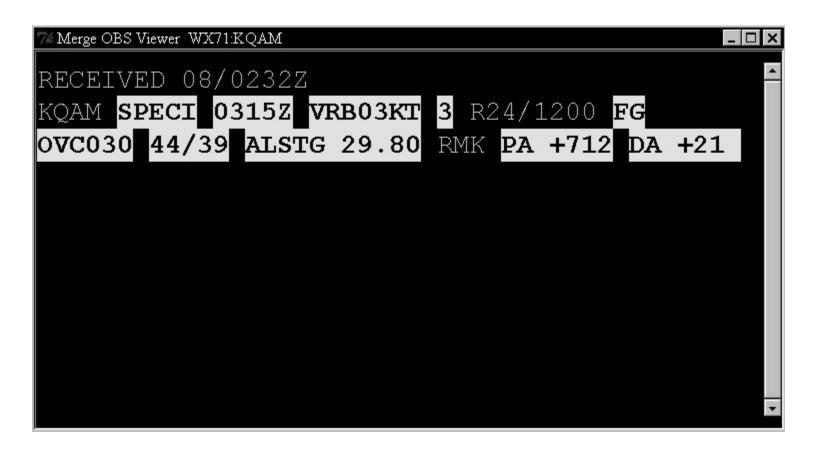
RAREP List

Solar/Lunar Data

ACK Report

Merged Obs Report

UNIT 6: A/N



Merged Obs Report

UNIT 6: A/N

- Receipt Acknowledgement Products (RAPs).
 - Only Available for Weather Warnings, Watches, and Advisories.
 - A RAP is Automatically Generated When Users of the LWNS/LOC or LWNS/ATC Clients Acknowledge Urgent Warning, Watch, or Advisory Alerts.
 - Alert Will Continuously Sound Until Alert is Acknowledged.
 - RAP is Transmitted to the LWNS "Home" Server.
 - RAP is Transmitted to the Originating NTFS Server (if Different than "Home" Server) of Product, Along With the Current List of LWNS Positions.

UNIT 6: A/N

- Receipt Acknowledgement Products (RAPs).
 - OWS's Will Need to Configure an "awds"
 Type Destinations for All CWT's for Receipt of LWNS Positions and Acknowledgements.
 - Configure->Destinations.
 - CWT's Will Need to Configure an "awds" Type Destination to Their OWS to Transmit LWNS Positions and Acknowledgements.
 - Configure->Destinations.
 - Use the OWS ICAO as the Symbolic Name.

UNIT 6: A/N

- Weather A/N View.
 - Added "Ack Report" Selection.
 - Allows NTFS Client Users to Generate, Display and Print Warning, Watch, and/or Advisory RAP Reports.
 - Select "Query" to Query the NTFS Server for a List of Active and Canceled Products.
 - Highlight Warning, Watch, or Advisory, and Select "Make Report".
 - List is Presented Displaying All LWNS Positions, and If Position Has Acknowledged or Not.
 - Select "Refresh Report" to Update RAP Report.
 - A "C" After the Time Indicates That the Product Has Been Canceled.
 - Available Only 1 Hour After Cancellation.

UNIT 6: A/N

Weather A/N View.

Local Weather Data \$et

View-by-Criteria

24 Hour Obs List

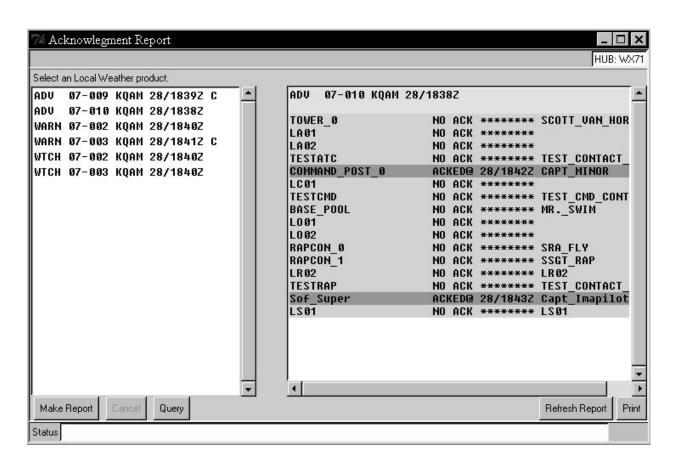
RAREP List

Solar/Lunar Data

ACK Report

Merged Obs Report

UNIT 6: A/N



Receipt Acknowledgement Report

UNIT 6: A/N

- Weather A/N View.
 - Added "Ack Report" Selection.
 - Select "Print" Report to Print the Displayed Report.
 - Server Will Automatically Print RAP Report When Warning, Watch, or Advisory is Re-issued, Expired, or Canceled.
 - Will Report on Acknowledgements Prior to Reissue, Expiration, or Cancel.

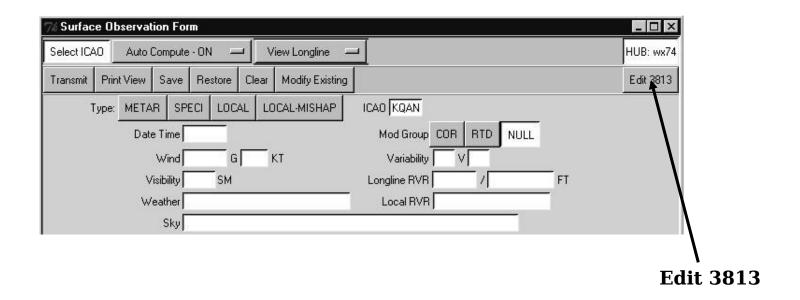
UNIT 6: A/N

- Weather A/N Forms.
 - Observation.
 - Added Capability to COR Observations in the Past (i.e., After a Subsequent METAR is Transmitted).
 - This Function Emulates the "redlined" Corrections Currently Performed on the 3803 "After-the-Fact".
 - Modify Existing Must Still Be Used for CORing Observations Before a Subsequent METAR is Transmitted.
 - To correct an "After-the-Fact" Observation, Select **Edit 3813**.
 - Enter the File Time of the Observation to "Edit" at the "File Time from 3813" Prompt, then Select OK.

UNIT 6: A/N

- Weather A/N Forms.
 - Observation.
 - To "redline" an "After-the-Fact" Obs, Select Edit 3813.
 - The Latest Observation From That File Time is Loaded into the Observation Form.
 - Enter the Corrected Information, and Select **Transmit**.
 - All Functions Work as in Modify Existing, Except:
 - Date Time Field is Locked.
 - Mod Group Prefilled With "COR" and Locked.
 - Upon Transmit, the Observation Won't Be Disseminated Locally or Longline.
 - To Leave "Edit 3813" Mode, Select Either Restore, Clear, Modify Existing, or Exit the Form.

UNIT 6: A/N



Observation Form

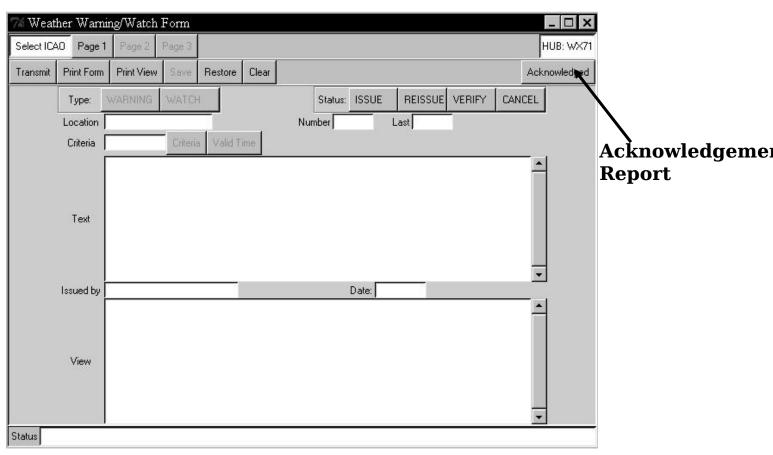
UNIT 6: A/N

- Weather A/N Forms.
 - TAF.
 - Moved Wind Shear Remarks Between Sky and Icing.
 - Longline Format.
 - KQAM TAF 051919 24010KT 8000 FG SCT020 SCT050 WS200/20080KT 611304 531604 QNH2989INS;
 - Local Format.
 - KQAM FCST 0519-0619 23010KT 5 FG SCT020 SCT050 WIND SHEAR 19080KT AT 200 LGT MXD ICG 130-170 MDT TURB IN CLEAR AIR 160-200 ALTIMETER29.89INS 30/PJV

UNIT 6: A/N

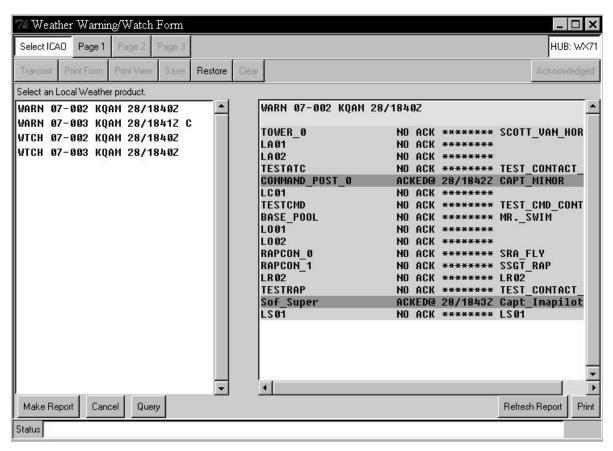
- Weather A/N Forms.
 - Weather Warning/Watch.
 - Added RAP Report Selection.
 - Select "Acknowledged" to Display RAP Report Window.
 - Allows Users to Generate, Display and Print Warning and Watch RAP Reports.
 - All Other Functions are the Same as Discussed Earlier.

UNIT 6: A/N



Warning/Watch Form

UNIT 6: A/N

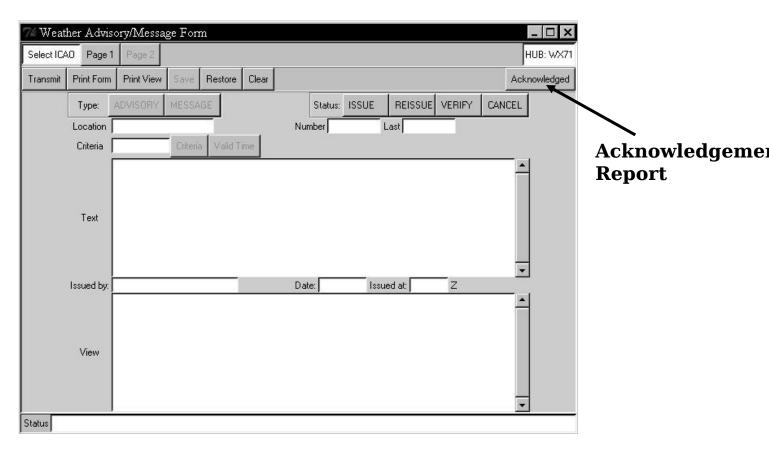


Warning/Watch Acknowledgement Display

UNIT 6: A/N

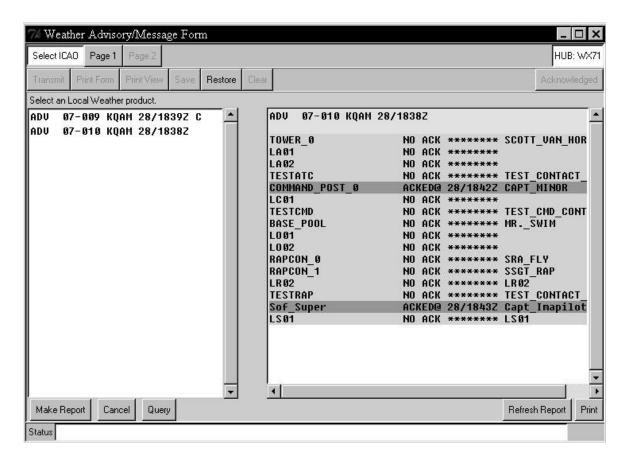
- Weather A/N Forms.
 - Weather Advisory/Message
 - Added RAP Report Selection.
 - Select "Acknowledged" to Display RAP Report Window.
 - Allows Users to Generate, Display and Print Advisory RAP Reports.
 - Messages are Never Acknowledged.
 - All Other Functions are the Same as Discussed Earlier.

UNIT 6: A/N



Advisory/Message Form

UNIT 6: A/N



Advisory Acknowledgement Display

UNIT 6: A/N

- Weather A/N Forms.
 - Operations.
 - Removed Monthly Summary Selection.
 - Obsolete With Email Transmit of Form 3813 Information to AFCCC.
 - Modified Synoptic Data Form for AFCCC Email Transmit.
 - Email Addresses Configure in RSM->Local ICAO
 Administration->Site Data Information->Misc
 for the Default Primary ICAO.
 - Select "Synoptic Data".
 - SYNOPTIC AND SUMMARY DATA Panel Appears.
 - Defaults to Default ICAO and Today's Data.

UNIT 6: A/N

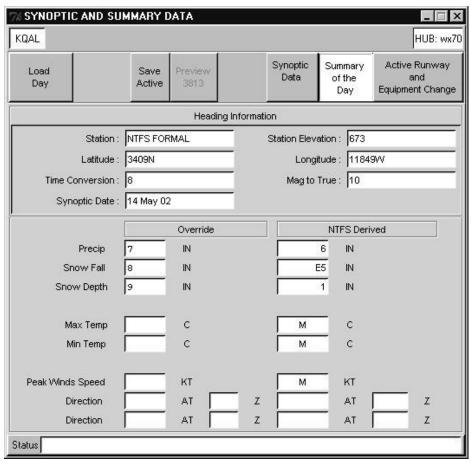
QAN .									HUB:					
Load Day		Save Preview 3813			Synoptic Summary Data of the Day				Active Runwa and Equipment Char					
			Head	ng Infor	mation)								
Station : AMIS LINUX					Station Elevation : 673									
Latitude: 3409N				Longitude: 11849VV										
Time Con	version:	8		7		Mag to Tri	ue: 10							
Synop	tic Date :	10 Mar 02	2											
	200			No.		Precip ater Equiv	Snow Fall		Snow Depth					
Midnight to:	0000	z 🗀 (1600LST)		1	IN		IN						
	0300	z (1900LST)	(1)	2	IN	Т	IN [
	0600	z [(2200LST)	(2)	3	IN	*5	in [2	2					
		Z		(3)		IN		IN [
		z 🗆		(4)		IN		IN						
	Midnight LST					- IN		ın [

Synoptic Data Page Display

UNIT 6: A/N

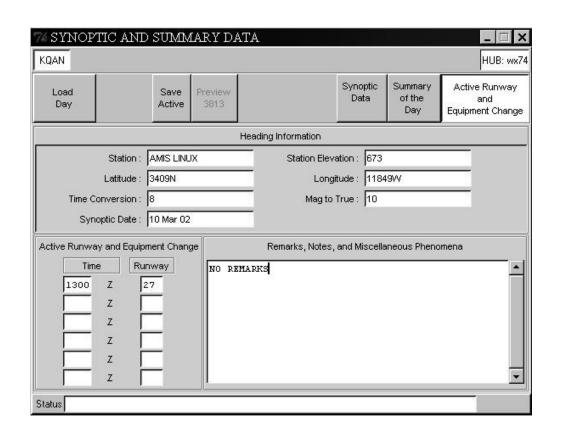
- Weather A/N Forms.
 - Operations.
 - Synoptic Data Form.
 - Select "Load Day" to Enter/Display Previous Day's Information.
 - Select "Synoptic Data" to Enter Precipication, Snow Fall, and Snow Depth Information.
 - Select "Summary of the Day" to Display NTFS Derived SOD Information.
 - Users Can Override NTFS Generated Information by Entering Information in the Override Area.
 - Select "Active Runway and Equipment Changes" to Enter Runway Changes and Remarks.

UNIT 6: A/N



Summary of the Day Page Display

UNIT 6: A/N



Active Runway and Equipment Change Page Display

UNIT 6: A/N

- Weather A/N Forms.
 - Operations.
 - Synoptic Data Form.
 - Select "Save Active" to Save Data to the Server.
 - Select "Preview 3813" to Display the Form 3813 Preview.
 - Select "Send to AFCCC" to Email Form 3813 Data to AFCCC.
 - Select "Print" to Print a Copy of the 3813.
 - Select "Quit" to Close Preview 3813 Window.

UNIT 6: A/N

d t- AECCO	FEDERAL METEOROLOGICAL FI SURFACE WEATHER OBSERVA (METAR/SPECIFORM FOR MILI			ISERVATION (REVISED)		LATITUDE 3409N	ELEV (TIME MAG TO DATE CONV TRUE 8 10 10 Mari			STATION AND STATE OR COUNTRY AMS LINUX			
nd to AFCCC	TYPE	TIME (UTC)	DRCTN		WIND	VARIABLITY	LOCA	AILING L LONG- LINE	VISIBILITY RUNWAY VISUAL RANGE		PRESENT	TWEATHER		TEMP ©	POINT	LISTG (M) 12) STN PRS (M)
	(f) METAR	(2) (3)	(949) 240		(11)	(98)	(69)	(48) 8000	(4C)	(SB) FG				20		(17) 1072 29.967
	SKYCON	іршюн (3)	SCT010						535	тотя	L SKY COVE	R (21)		OBSINI	L (19) BTA	29301
	REMARK	S (13) LON	GLINE REM	ARKS AG	AIN											
	SKY CONDITION (3) TOTAL SKY COV.									L SKY COVE	IVER (21) OBS INIT (16)					
	REMARK	S (13)														
		$\overline{}$														
	SKYCON	IDITION (3)	\vdash							TOTA	LSKYCOVE	R (21)		OBSINI	r (15)	
	REMARK	S (13)	(13)							-		2000		**	2000	
	\vdash			_												
	SKY CONDITION (3) TOTAL SKY COVER (21)								OBS INIT (15)							
	REMARKS (13)												0-1			
	SYNOPTIC DATA						_		N PRESSURE COMPUTATION		SUMMARY OF THE DAY			ACTIVE RNWY AND EQUIP CHANGE		NWY
				OFIC D.	ATA			STATIO			24-HR MAX TEMP	PRECIP	SNOW	SNOW		
	TIME GI	IT) TI	ME (LST)	Tuo	Indonin		SNOW DEPTH				TEMP	equip	Trace		TIME IR	
	TIME (GIL (41) HIM (LST) D:	, u		NO (43)		SNOW FALL (45)	SNOW DEPTH	STATIO TIME (SINT (S ATT THERM (EMP S	(60) (water	(69)	(70)	TIME R (GMT) No 1300 27	
	MICH (LST) DOME DOME	0 0	ME (LST) (42) 10 to: 600LST)	 © €	PRECIP (Note r eq 1 tb) (44)	(45) T		TIME (SMT (S ATT THERM (DBSRVD BAR	90) (61)		20 20	(50) 7	(69) 8	(7D)	TIME R (GMT) No 1300 27	
	III (LST)	0 0	ME (LST) (42) 1010: 6001LST)	29 € ⊗ ⊗	PRECIP (water equil) (44)		1 2	TIME (GMT (S) ATT THERM (DBSRVD BAR TOTAL CORR STAPRESS (6	(6) (6) (7)		20 20 24-HR MIN TEMP		69 8 DRCTN (tree) (72)	(O) TIME GMT) (O)	1300 27	0
	MU (LST) D: D: D: D: D: D: D: D: D: D: D: D: D:	0 0	ME (LST) (42) Id to: 6001LST) S001LST) 2001LST)	NO (5)	PRECIP (water equil) (44)	(45) T	1 2	TIME (SMT (S ATT THERM (DBSRVD BAR TOTAL CORR STA PRESS (6 BAROGRAPH	(51) (62) (33) (64)		20 20	(S) FEED (S)(T)	(69) 8	(7D)	TIME R (SMT) No 1300 27)
	MID (LST) TOTAL TO	O U C	ME (LST) (42) Id to: GOOLIST) SOOLIST) 2001LST)	© @ @ @ @ @	PRECIP (water equit) (46) 1 2 3	(45) T	1 2	TIME (GMT (S) ATT THERM () DBSRVD BAR TOTAL CORR STA PRESS (6) BAROGRAPH BAR CORR (6)	(51) (62) (33) (64)		20 20 24-HR MIN TEMP	(50) 7	69 8 DRCTN (tree) (72)	(O) TIME GMT) (O)	TIME R (SMT) No 1300 27)
	UM (LST) TOTAL TOT	O U C	ME (LST) (42) Id to: GOOLIST) SOOLIST) 2001LST)	© @ @ @ @ @	PRECIP (water equit) (46) 1 2 3	(45) T *5	1 2	TIME (GMT (S) ATT THERM () DBSRVD BAR TOTAL CORR STA PRESS (6) BAROGRAPH BAR CORR (6)	(51) (62) (33) (64)		20 20 24-HR MIN TEMP	(S) FEED (S)(T)	69 8 DRCTN (tree) (72)	(O) TIME GMT) (O)	TIME R (GMT) No 1300 27	
	MID (LST) TOTAL TO	O U C	ME (LST) (42) Id to: GOOLIST) SOOLIST) 2001LST)	© @ @ @ @ @	PRECIP (water equit) (46) 1 2 3	(45) T *5	1 2	TIME (GMT (S) ATT THERM () DBSRVD BAR TOTAL CORR STA PRESS (6) BAROGRAPH BAR CORR (6)	(51) (62) (33) (64)		20 20 24-HR MIN TEMP	(S) FEED (S)(T)	69 8 DRCTN (tree) (72)	(O) TIME GMT) (O)	1300 27	

Form 3818 Preview

UNIT 6: A/N

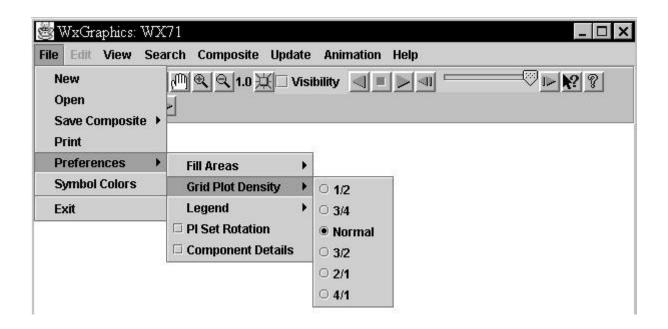
- A/N Misc.
 - Ability to Ingest WMO Formatted A/N Data via FTP.
 - ASCII Text Strings Terminated With "=".
 - -TAF HECA 212121Z 212121 08005KT CAVOK TEMPO 0608 VRB03KT 2000 BR SCT030 FM1000 03010KT 9999 SCT030 TEMPO 0006 VRB03KT 3000 BR=
 - FTP Push or Pull Supported.
 - Select **FTP->Ingest Authorizations** to Configure Username and Password for FTP Push.
 - Select FTP->Other Product Sources to Configure for FTP Pull.
 - Query and View Data as With Any Other A/N Product.

UNIT 7: WEATHER GRAPHICS

UNIT 7: WEATHER GRAPHICS

- File->Preferences.
 - Removed "Show Grid" and "Snap to Grid" Options.
 - Not Active in NTFS 2.0.
 - Added "Grid Plot Density" Option.
 - Allows Override of Displayed Grid Data Density Without Zooming.
 - "4/1" Indicates Display 4x Grid Points if Available.
 - "1/2" Indicates Display 1/2 Grid Points.

UNIT 7: WEATHER GRAPHICS

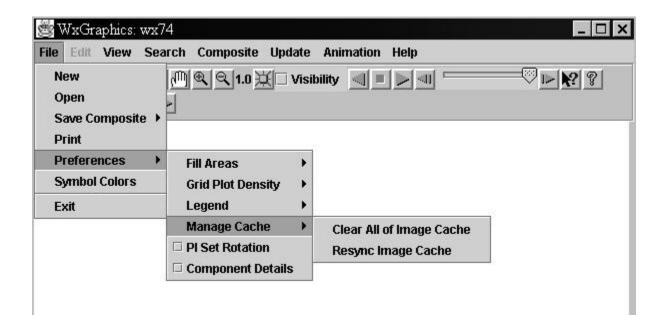


Grid Plot Density Menu

UNIT 7: WEATHER GRAPHICS

- File->Preferences.
 - Added "Manage Cache" Option.
 - Allows Clearing and Syncing of the Image/Background Cache.
 - Select "Clear All of Image Cache" to Remove Disk Cached Images and Backgrounds.
 - Ensure That No Images/Backgrounds are Displayed Prior to Selecting To "Continue".
 - Select "Resync Image Cache" to Sync-Up the Disk Cache and the Weather Graphics Cache.
 - Perform After a "Clear All of Image Cache".
 - Ensure That No Images/Backgrounds are Displayed Prior to Selecting To "Continue".
 - Use This Option Only When Directed by Maintenance Personnel.

UNIT 7: WEATHER GRAPHICS



Manage Cache Menu

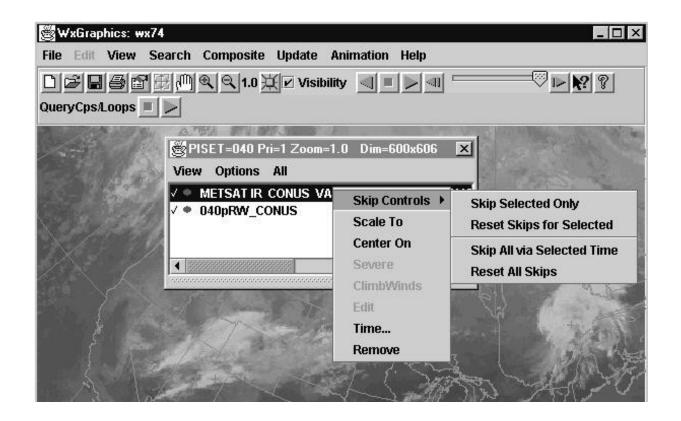
UNIT 7: WEATHER GRAPHICS

- File->Layer List->Options.
 - Added "Skip Controls" Option.
 - Allows Removing Product(s) From a Loop Sequence.
 - Can Also Use Right-Mouse Button Over Highlighted Product in Layer List to Select "Skip Controls".
 - Skip Settings are Not Saved in the Composite; the Skip Settings are Only Active During Display of the Loop.
 - With the Identified Product Displayed and Highlighted in Layer List, Select Skip Controls->Skip Selected Only.
 - May Need to Advance Loop Until Target Product is Visible.
 - Repeat For Any Other Product(s).
 - Select Reset Skips for Selected to Remove All Skips.

UNIT 7: WEATHER GRAPHICS

- File->Layer List->Options.
 - Added "Skip Controls" Option.
 - If Multiple Products Having the Same Time Are Displayed in the Same Loop "Slot" and Both Wish to Be Skipped, Select Skip All via Selected Time.
 - May Need to Advance Loop Until Target Products are Visible.
 - Repeat For Any Other Product(s).
 - Select **Reset All Skips** to Remove All Skips.

UNIT 7: WEATHER GRAPHICS

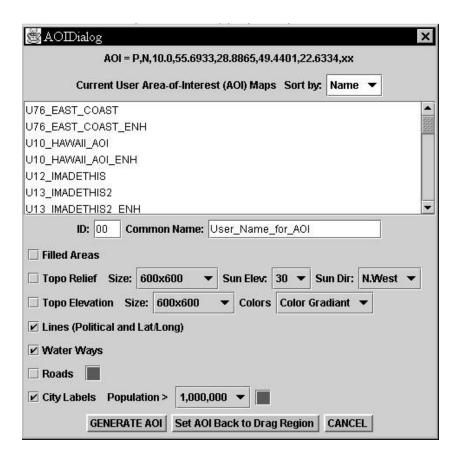


Layer List Skip Controls

UNIT 7: WEATHER GRAPHICS

- View->Define Region for "Area of Interest(AOI)".
 - Added New MMI for DTED Mapping.
 - AOI Backgrounds Sorted by Name or ID via Toggle Selection.
 - View->Define Region for Area of Interest (AOI).
 - Left Mouse Select at Center, Hold and Drag to Define Region, Release to Display AOI Dialog Panel (Same as NTFS 2.0).
 - Creates a "Background Composite" with Several Components.
 - Topographic Elevation Data.
 - Topographic Relief Data.
 - Water Ways.
 - Cities.
 - Roads.
 - Political Boundary's.

UNIT 7: WEATHER GRAPHICS



DTED Mapping Options

UNIT 7: WEATHER GRAPHICS

- View->Define Region for "Area of Interest(AOI)".
 - Background Creation Options.
 - Filled Areas. Produces Backgrounds With Brown Land/Blue Water.
 - Topo Relief.
 - Size. Select Resolution of Relief Background (Defaults to 600x600).
 - Sun Elevation. Select Elevation of Sun to Enhance Relief Affect (Defaults to 30 Degrees).
 - Sun Direction. Select Direction of Sun to Enhance Relief Affect (Defaults to Northwest).

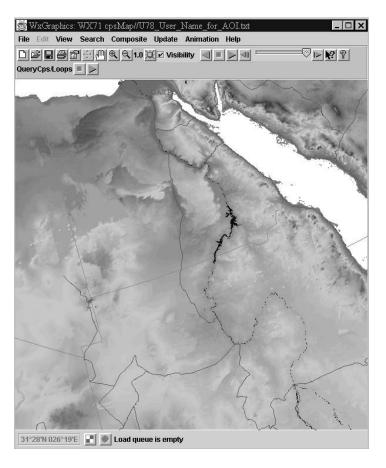
UNIT 7: WEATHER GRAPHICS

- View->Define Region for "Area of Interest(AOI)".
 - Background Creation Options.
 - Topo Elevation.
 - Size. Select Resolution of Topographic Background (Defaults to 600x600).
 - Colors. Select Color Curve for Defining Elevation (Defaults to Color Gradient).
 - Lines (Political and Lat/Long). Select if Political Boundary's and Lat/Long Lines Are to be Created (Selected by Default).

UNIT 7: WEATHER GRAPHICS

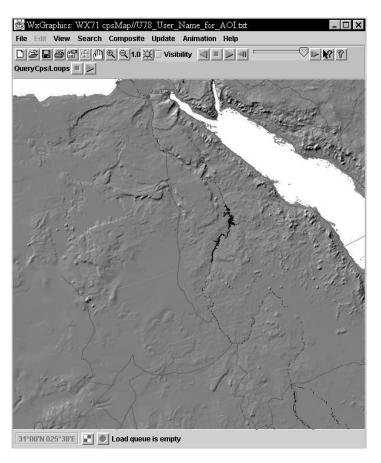
- View->Define Region for "Area of Interest(AOI)".
 - Background Creation Options.
 - Water Ways. Select if Inland Rivers and Lakes Are to be Created (Selected by Default).
 - Roads. Select if Roads Are to be Created.
 - Color. Select Color of Roads (Defaults to Cyan).
 - City Labels. Select if City Labels Are to be Created.
 - Population. Select Population Threshold Value When to Start Creating City Labels (Selected by Default and Defaults to 1,000,000).
 - Color. Select Color of City Labels (Defaults to Cyan).
 - Background Composite List Will Automatically Display When AOI Generation is Completed.

UNIT 7: WEATHER GRAPHICS



Background

UNIT 7: WEATHER GRAPHICS

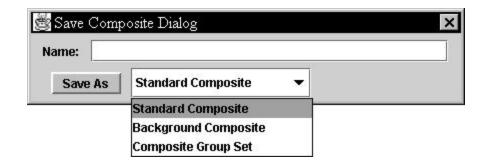


Background Without Relief Data

UNIT 7: WEATHER GRAPHICS

- File->Save Composite.
 - Added "Background Composite" Option.
 - Saves Composite as a "Background".
- Composite->Save Composite Definition.
 - Added "Background Composite" Option.
 - Saves Composite as a "Background".

UNIT 7: WEATHER GRAPHICS



File->Save Composite Options
Composite->Save Composite Definition Options

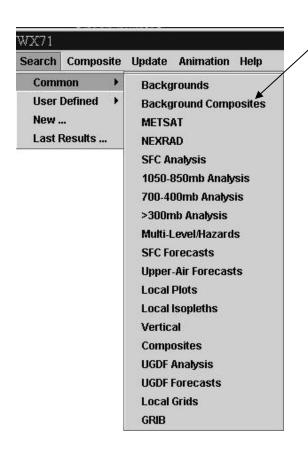
Sep 11, 2016

UNIT 7: WEATHER GRAPHICS

- Search->Common.
 - Added "Background Composites" Option.
 - "Backgrounds" Sorted by Name or ID via Toggle Selection.

Sep 11, 2016

UNIT 7: WEATHER GRAPHICS



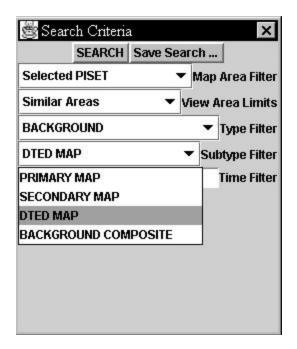
Background Composites Select

Common Background Composites Search

UNIT 7: WEATHER GRAPHICS

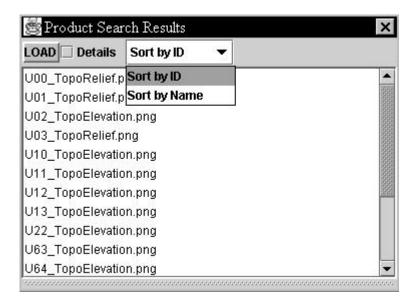
- Search->New.
 - Added Background Subtype Filters of "DTED MAP" and "BACKGROUND COMPOSITE".
 - DTED MAP Option Lists Relief and Elevation Components.
 - BACKGROUND COMPOSITE Option Lists Background Composite Definitions.
 - SECONDARY MAP Option Lists City, Lakes/Rivers, and Road Components.
 - All BACKGROUND Lists Sorted by Name or ID via Toggle Selection.

UNIT 7: WEATHER GRAPHICS



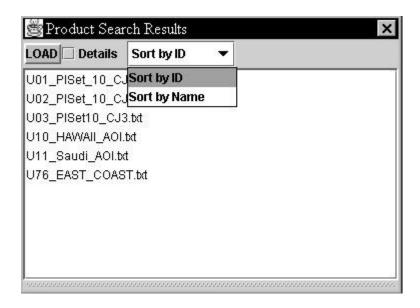
BACKGROUND Type Search Options

UNIT 7: WEATHER GRAPHICS



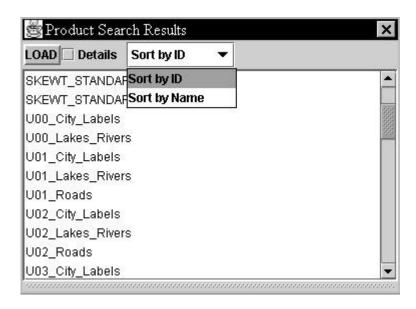
DTED Map Search List

UNIT 7: WEATHER GRAPHICS



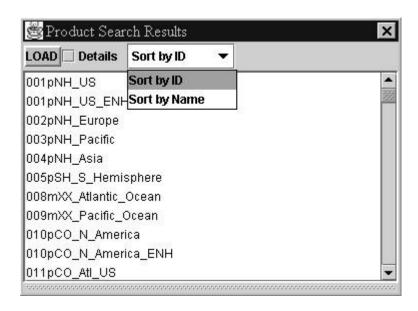
Background Composite Search List

UNIT 7: WEATHER GRAPHICS



Secondary Map Search List

UNIT 7: WEATHER GRAPHICS



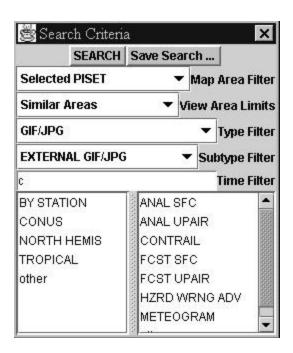
Primary Background Search List

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UNIT 7: WEATHER GRAPHICS

- Search->New.
 - Added EXTERNAL GIF/JPG Location and Parameter Filters.
 - Uses LAH to Define Area and Sub-Area.
 - Similar to Product Viewer->Other Weather Products Filters.
 - Added Type Filter of "NITF" and Subtype Filter of "NITF IMAGES".
 - NITF Images Can be Treated the Same as Other Products.
 - Composites, etc.

UNIT 7: WEATHER GRAPHICS



External GIF/JPG Search Options

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UNIT 7: WEATHER GRAPHICS



NITF Search Option

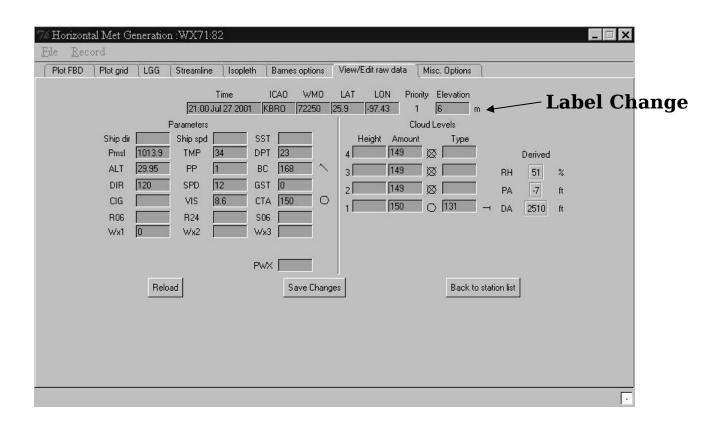
UNIT 8: MET GENERATION

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UNIT 8: MET GENERATION

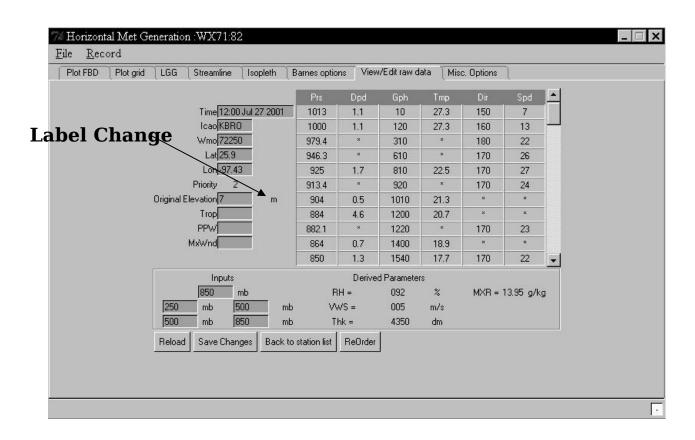
- Surface/UA FBD View/Edit Data Elevation Label Changed to "m" from "ft".
- Added Label to Severe and Climb Winds Panel to Indicate Whether Data is Original or Edited.

UNIT 8: MET GENERATION



Surface View/Edit Panel

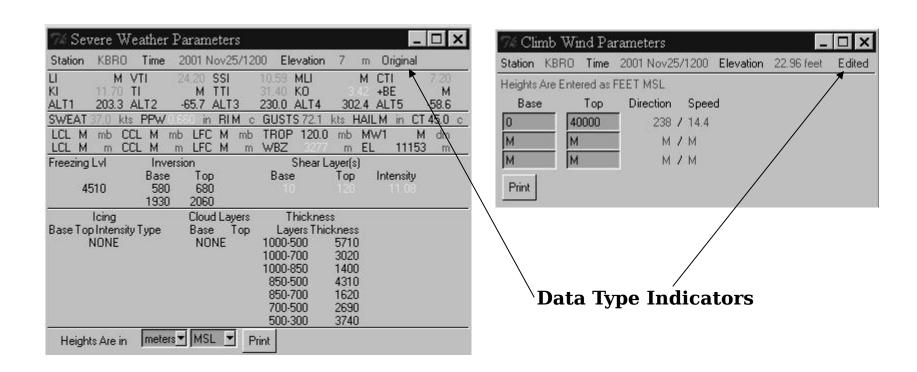
UNIT 8: MET GENERATION



Upper Air View/Edit Panel

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UNIT 8: MET GENERATION



Severe and Climb Wind Panel

UNIT 9: LWNS/LOC

UNIT 9: LWNS/LOC

- Replicates Same Functionality as Legacy FCF/FO.
 - Added Capability:
 - User Defined Alert Sounds/Colors.
 - User Defined Product Catalog (A/N and Graphic).
 - Ability to Display Other A/N Products.
 - Ability to Display Graphic Products and Loops.
 - Receipt Acknowledgement of Warnings, Watches, and Advisories.
 - LWDS-Type Display Format for Local ICAO (i.e., Split-Screen).
 - Increased Displayed Alternate ICAOs to 20.

UNIT 9: LWNS/LOC

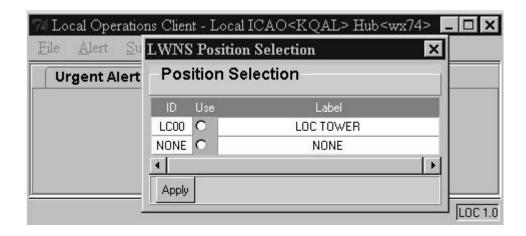
- Login Screen Identical to NTFS.
- Once Connected, and the Session Has Been Accepted by NTFS, the Position Selection Panel Appears.
 - Select the Position, or Select "None", for Identification.
 - Only a Single Position and User is Allowed to be Active at Any Given Time.
 - Last Login Wins...Other Login Will be Terminated.
- Once Position is Selected, the LOC Main Window is Displayed.
 - If Web Server is Restarted, Must Re-Login.

UNIT 9: LWNS/LOC

76 Local Weather N	Tetwork System -	- Client
File Alert		
1	THIS IS A DEPARTMENT (OF DEFENSE COMPUTER SYSTEM.
(SPECIFICALLY INCLUDIN USE. DOD COMPUTER SYS THAT THEIR USE IS AUTH UNAUTHORIZED ACCES SECURITY. MONITORING THE SECURITY OF THIS COPIED, AND USED FOR A PLACED ON OR SENT (AUTHORIZED OR U UNAUTHORIZED USE MA) COLLECTED DURING M	G INTERNET ACCESS)A TIENS MAY DE MONITOR ORIZED, FOR MANAGME S, AND TO VERIFY SECI INCLUDES ACTIVE ATT SYSTEM. DURING MONI UTHORIZED PURPOSES IVER THIS SYSTEM MAY NAUTHORIZED, CONSTI 'S UBJECT YOU TO CRII DINTORING MAY BE USE	LATED EQUIPMENT, NETWORKS, AND NETWORK DEVICES ARE PROVIDED ONLY FOR AUTHORIZED U.S. GOVERNMENT RED FOR ALL LAWFUL PURPOSES, INCLUDION TO ENSURE IENT OF THE SYSTEM, TO FACILITATE PROTECTION AGAINST URRITY PROCEDURES, SURVIVABILITY, AND OPERATIONAL TACKS BY AUTHORIZED DOD ENTITIES TO TEST OR VERIFY HITORING, INFORMATION MAY BE EXAMINED, RECORDED, S. ALL INFORMATION, INCLUDING PERSONAL INFORMATION (PER MONITORED, USE OF THIS DOD COMPUTER SYSTEM, TITUTES CONSENT TO MONITORING OF THIS SYSTEM, WINNEL PROSECUTION, EVIDENCE OF UNAUTHORIZED USE ED FOR ADMINISTRATIVE, CRIMINAL, OR OTHER ADVERSE ES CONSENT TO MONITORING FOR THESE PURPOSES.
	Select a Hub for Conn	nectionAdd Hubs as Required
	WX71	Connect Edit
	Nev	w/Edit Hub
Hub Name: Hub IP: Hub Port:		OPTIONAL Proxy IP: Proxy Port:
		ver C Use Secure Server
	ОК	Cancel

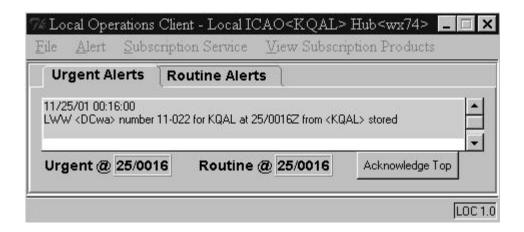
LWNS/LOC Login Screen

UNIT 9: LWNS/LOC



Position Selection Menu

UNIT 9: LWNS/LOC



LWNS/LOC Main Window

UNIT 9: LWNS/LOC

- LOC Menu.
 - Select File->Change Password to Change the User Password When Required.
 - Select File->Exit to Exit the LOC Application.

UNIT 9: LWNS/LOC

Name:	svh	_
Old Password:	×××××××	
New Password:		
Repeat Password:		
	ng on a new password LD PASSWORD IS NOT	ALL OWED
A · Halling thind in		
B - Password must b	e 8 characters long	
B - Password must b C - Password must in		

LWNS/LOC Change Password

UNIT 9: LWNS/LOC

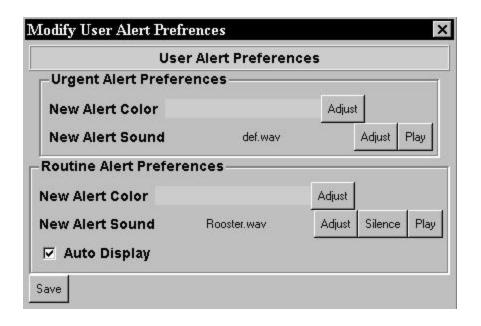
LOC Menu.

- Select Alert->Preferences to Modify the Alert Sounds and Colors.
 - Colors. Select **Adjust** to Display Windows Color Palette.
 - Select Desired Color, and Select **OK**.
 - Sounds. Select **Adjust** to Display List of Available .wav Files.
 - Add Personal .wav Files in c:\Program Files\LWNS\sounds.
 - Highlight Desired Sound, and Select **Open**.
 - Select **Play** to Test/Listen.
 - Select **Silence** to Turn-Off Routine Alerts.

UNIT 9: LWNS/LOC

- LOC Menu.
 - Select Alert->Preferences to Modify the Alert Sounds and Colors.
 - Toggle Auto Display to Automatically De-iconify LOC Window When Routine Alert Arrives.
 - LOC Will Always Automatically De-Iconify When Urgent Alert is Retrieved.
 - Select **Save** to Save Preferences to Server for Each Username.

UNIT 9: LWNS/LOC



LWNS/LOC Alert Preferences

UNIT 9: LWNS/LOC

- Alert Options Panel.
 - Alerts Will Only Display Since Login.
 - No Historical Alerts Are Retrieved.
 - Place Cursor in Alert Window, Select Right Mouse Button, Alert Options Panel is Display.
 - To Delete Alerts, Select **Mark/Mark All** to Select Alert(s), Then Select **Acknowledge Top** to Remove Alert(s).
 - Select **UnMark** to Remove Delete Mark.

UNIT 9: LWNS/LOC

Cut

Print

View

Mark

Mark All

UnMark

LWNS/LOC Alert Options

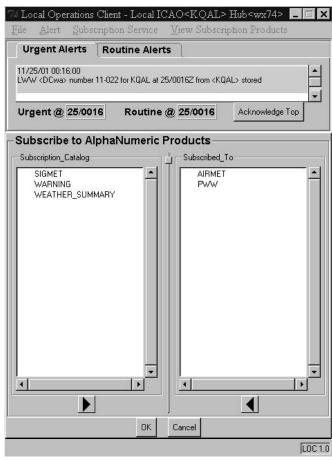
UNIT 9: LWNS/LOC

- Alert Options Panel.
 - For Urgent Alerts (i.e., Warnings, Watches, and Advisories), Alert Option Panel is Not Needed.
 - Alert Will Sound Continuously Until Acknowledged.
 - Select **Acknowledge Top** to Remove Urgent Alert and Silence Alert.
 - Only One Urgent Alert Can be Removed at a Time.
 - Receipt Acknowledgement is Automatically Generated.
 - For Routine Alerts (i.e., FCF Dataset Arrivals), Alert Will Occur Only Once When Arrived.

UNIT 9: LWNS/LOC

- Alphanumeric Subscription Service.
 - Subscription Service->Alpha Numeric.
 - Lists Available Selections Configured by System Manager.
 - LWNS Subscription Service -> Local LOC Products.
 - To Subscribe to a A/N Product (Move Product to "Subscribed To" Column).
 - Double-Click on Product in "Subscription Catalog" Column.
 - Highlight, and Select Move-Right Arrow.
 - To Unsubscribe to a A/N Product (Move Product to "Subscription Catalog" Column).
 - Double-Click on Product in "Subscribed To" Column.
 - Highlight, and Select Move-Left Arrow.

UNIT 9: LWNS/LOC

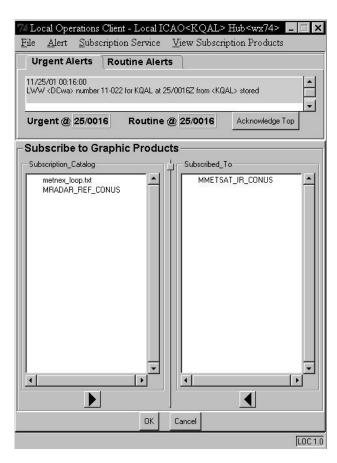


A/N Subscription List

UNIT 9: LWNS/LOC

- Graphic Subscription Service.
 - Subscription Service->Graphics.
 - Lists Available Selections Configured by System Manager.
 - LWNS Subscription Service -> Local LOC Products
 - To Subscribe to a Graphic Product (Move Product to "Subscribed To" Column).
 - Double-Click on Product in "Subscription Catalog" Column.
 - Highlight, and Select Move-Right Arrow.
 - To Unsubscribe to a Graphic Product (Move Product to "Subscription Catalog" Column).
 - Double-Click on Product in "Subscribed To" Column.
 - Highlight, and Select Move-Left Arrow.

UNIT 9: LWNS/LOC

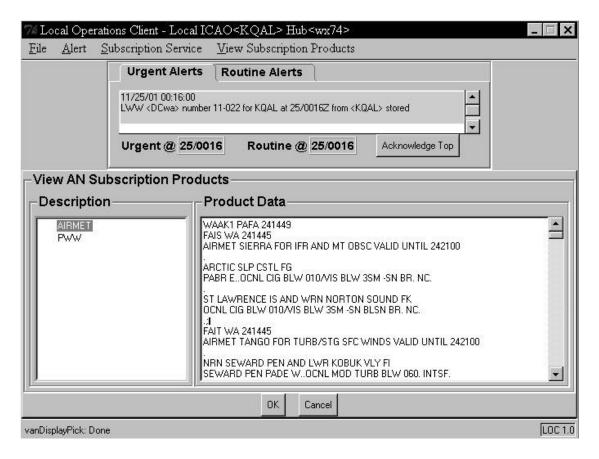


Graphic Subscription List

UNIT 9: LWNS/LOC

- Viewing Alphanumeric Products.
 - Select View Subscription Products->AN Subscription.
 - Subscribed A/N Products are Listed.
 - Select Product Description, and Most Current Product is Displayed.
 - LOC Queries Every 60 Seconds for Updated A/N Products.

UNIT 9: LWNS/LOC



A/N Products Display

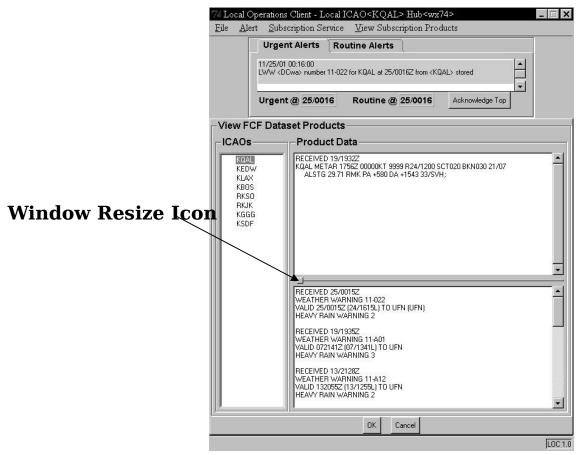
UNIT 9: LWNS/LOC

- Viewing Alphanumeric Products.
 - Select View Subscription Products->FCF Subscription.
 - Selected ICAOs are Listed.
 - Configured by System Manager.
 - LWNS Subscription Service -> Active Positions.
 - Select ICAO, and FCF Dataset is Displayed.
 - First ICAO is Default Local ICAO.
 - OBS and TAFs in Upper Window
 - Warning/Watches, Advisories/Messages, PIREPs, AIRADs, and Unformatted Messages, in That Order, in Lower Window.

UNIT 9: LWNS/LOC

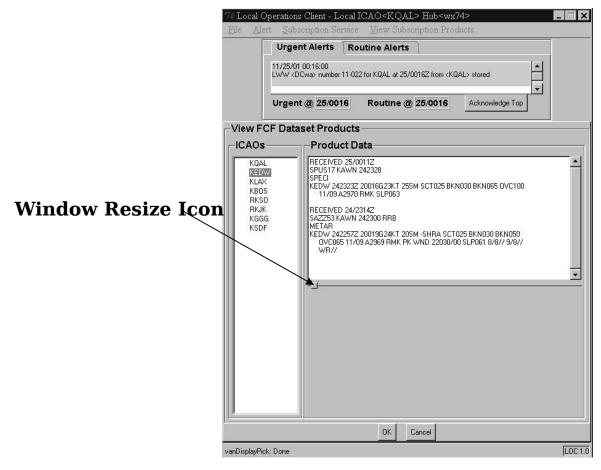
- Viewing Alphanumeric Products.
 - Select View Subscription Products-FCF Subscription.
 - Alternate ICAO's Displayed in Order Configured.
 - OBS and TAFs in Single Window.
 - Windows Can Be Resized Vertically by Selecting the Window Resize Icon and Dragging Up or Down.
 - LOC Queries Every 60 Seconds for Updated A/N Products.

UNIT 9: LWNS/LOC



Primary ICAO FCF Dataset

UNIT 9: LWNS/LOC

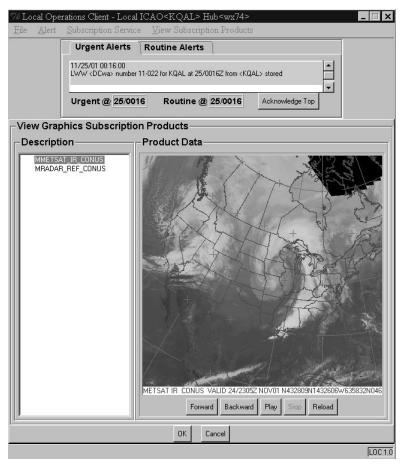


Alternate ICAO FCF Dataset

UNIT 9: LWNS/LOC

- Viewing Graphic Products.
 - Select View Subscription ServicesScraphics.
 - Subscribed Graphic Products are Listed.
 - Select Product Description, and Most Current Product is Displayed.
 - Select Forward, Backward, Stop, or Play to Control Looping.
 - Select **Reload** to Query for Updated Products.

UNIT 9: LWNS/LOC



Graphic Display Panel

UNIT 10: LWNS/ATC

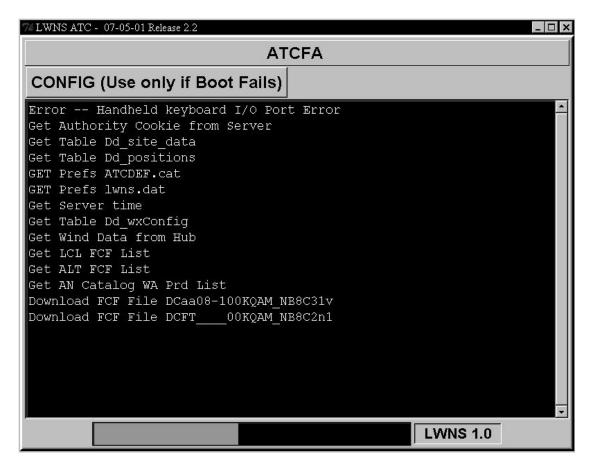
UNIT 10: LWNS/ATC

- Replicates Same Functionality as Legacy FCF/ATC.
 - Added Capability:
 - Ability to Display External OBS Converted to Local Format for the Local Default ICAO (i.e., FAA Type).
 - User Defined Product Catalog (A/N and Graphic).
 - Ability to Display Other A/N Products.
 - Ability to Display Graphic Products and Loops.
 - Up to 3 Selections Supported.
 - Ability to Display AOS Wind Data Graphically.
 - Receipt Acknowledgement of Warnings, Watches, and Advisories.

UNIT 10: LWNS/ATC

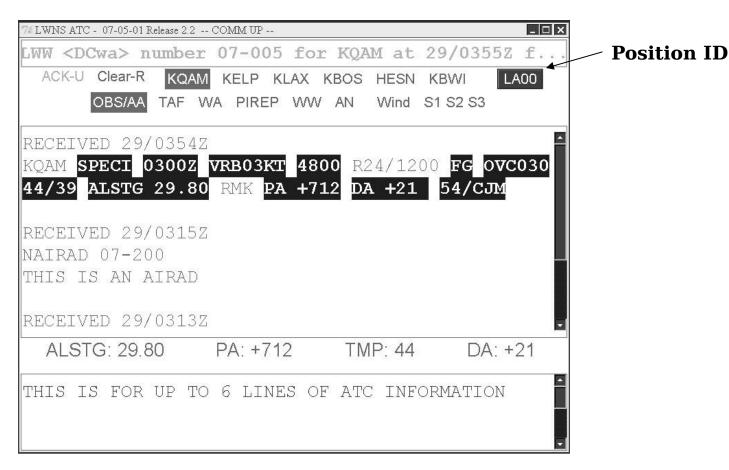
- LWNS/ATC Will Automatically Initiate When Client PC is Rebooted.
- Once Connected, and the Session Has Been Accepted by NTFS, the LWNS/ATC Window Appears.
 - No Manual Login is Required by User.
 - Login and Authorization is by Encrypted "Certificate" to the Configured NTFS Server.
 - Only a Single Position is Allowed to be Active at Any Given Time.
 - Last Login Wins...Other Login Will be Terminated.

UNIT 10: LWNS/ATC



LWNS/ATC Boot-Up Display

UNIT 10: LWNS/ATC

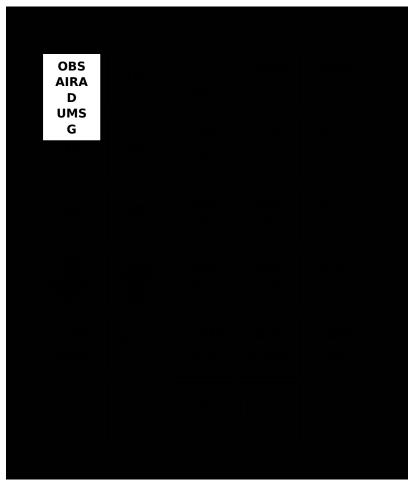


LWNS/ATC Main Display

UNIT 10: LWNS/ATC

- GUI Interface.
 - All Interfacing is Performed From a Back-Lit Hand-Held KeyPad.
 - Optional Mouse is Also Available.
 - One LWNS/ATC per Base Will Have a Keyboard Attached to Input the ATC Information Messages.

UNIT 10: LWNS/ATC

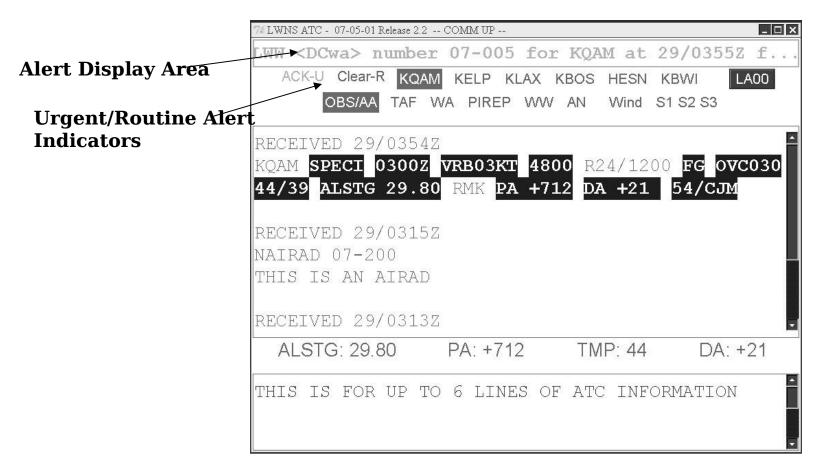


LWNS/ATC KeyPad Layout

UNIT 10: LWNS/ATC

- Alerts.
 - Urgent Alerts Will Sound Continuously Until Acknowledged.
 - ACK-U Will Flash When Urgent Alerts are Present.
 - Select ACK ALARM to Remove Urgent Alert and Silence Alert.
 - Only One Urgent Alert Can be Removed at a Time.
 - RAP is Automatically Generated.
 - Routine Alerts Will Sound Once When Arrived.
 - Clear-R Will Flash When Routine Alerts are Present.
 - Select **CLEAR RTN** to Remove Routine Alerts.

UNIT 10: LWNS/ATC



LWNS/ATC Main Display

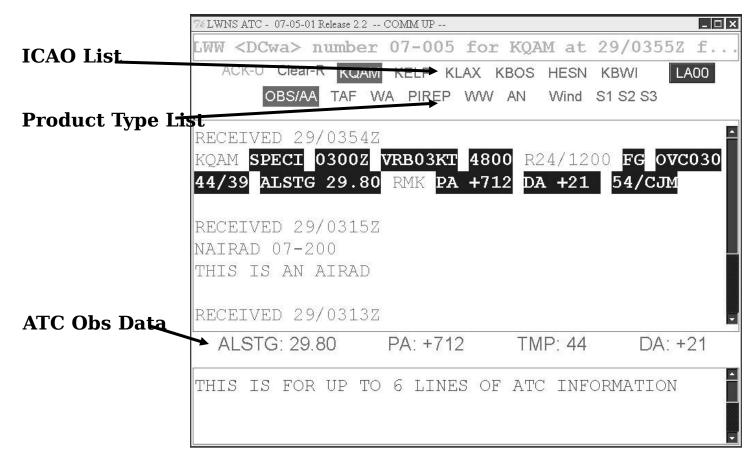
UNIT 10: LWNS/ATC

- Alerts.
 - Alerts Will Only Display Since Login.
 - No Historical Alerts Are Retrieved.
 - Select **SOUND ALARM** to Test Alert.
 - Select **QUIET ALARM** to Silence Alert.

UNIT 10: LWNS/ATC

- Viewing Local ICAO FCF Dataset Products.
 - Select **LCL BASE** for Local Default ICAO.
 - Configured by System Manager.
 - LWNS Subscription Service -> Active Positions.
 - First ICAO Listed is Default Local ICAO.
 - Select **OBS/AIRAD/UMSG** to Display Latest Observations, AIRAD's and Unformatted Message.
 - Displayed as "OBS/AA" on ATC Window.
 - Displays Merged Observation.
 - Latest AIRAD Displayed First.
 - Latest Unformatted Message Displayed Last.
 - Select **TAF** to Display Latest TAF.
 - Displayed as "TAF" on ATC Window.

UNIT 10: LWNS/ATC



LWNS/ATC Main Display

UNIT 10: LWNS/ATC

- Viewing Local ICAO FCF Dataset Products.
 - Select **WA** to Display Weather Advisories.
 - Displayed as "WA" on ATC Window.
 - Latest Advisory Displayed First.
 - Always Defaults to Default Local ICAO.
 - Weather Messages are Not Displayed on ATC.
 - Select **PIREP** to Display PIREPs.
 - Displayed as "PIREP" on ATC Window.
 - Latest PIREP Displayed First.
 - Always Defaults to Default Local ICAO.
 - Select or Scroll Through Display Product(s).

UNIT 10: LWNS/ATC

- Viewing Local ICAO FCF Dataset Products.
 - Select WW to Display Weather Warnings and Watches.
 - Displayed as "WW" on ATC Window.
 - Always Defaults to Default Local ICAO.
 - Latest Warning or Watch Displayed First.
 - ATC Queries Every 60 Seconds for Updated A/N Products.

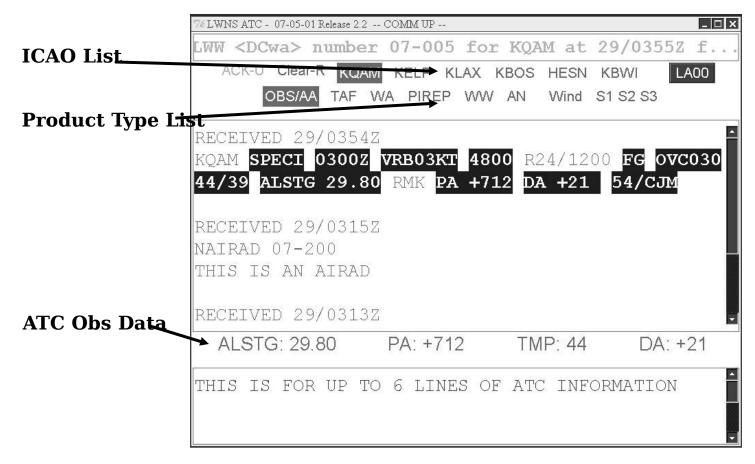
UNIT 10: LWNS/ATC

- Viewing Local ICAO FCF Dataset Products.
 - Merged Observations.
 - METAR Clears Display and Starts the Merge Over Again.
 - SPECI's, LOCAL's, and AWO's Merge With Baseline METAR, With All Differences Highlighted Between Each Subsequent Observation.
 - Use "*" in the Observation Form to Remove an Element.
 - FAA Locations May Display Incorrect Observation Data.
 - Observation is Converted to Local Format.
 - No Method to Remove an Element.

UNIT 10: LWNS/ATC

- Viewing Local ICAO FCF Dataset Products.
 - ATC Obs Data Line.
 - Always Displays Current/Merged Observation ALSTG, PA, TMP, and DA Regardless of Data Selected.
 - DA Display is Configured by System Manager.
 - Local ICAO Administration->Site Data Information

UNIT 10: LWNS/ATC



LWNS/ATC Main Display

UNIT 10: LWNS/ATC

- Viewing Alternate ICAO FCF Dataset Products.
 - Select **BASE 1 5** for Alternate ICAOs.
 - Alternate 5 ICAO's Displayed in Order Configured by System Manager.
 - LWNS Subscription Service -> Active Positions.
 - Select **OBS/AIRAD/UMSG** to Display Latest Observations.
 - Displayed as "OBS/AA" on ATC Window.
 - Latest Observation Displayed First.
 - Select **TAF** to Display Latest TAF.
 - Displayed as "TAF" on ATC Window.
 - All Other Product Type Selections are Not Applicable.

UNIT 10: LWNS/ATC

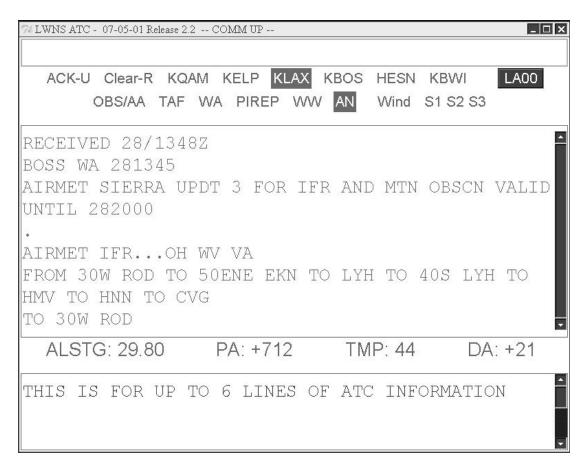
- Viewing Alternate ICAO FCF Dataset Products.
 - ATC Queries Every 60 Seconds for Update A/N Products.
 - Select or Scroll Through Displayed Product(s).

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UNIT 10: LWNS/ATC

- Viewing Alphanumeric Subscription Products.
 - Select **AN** to Display All the Most Current Subscribed A/N Products.
 - Displayed as "AN" on ATC Window.
 - Subscribed A/N Products are Concatenated into a Single List.
 - Configured by System Manager.
 - LWNS Subscription Service -> Local ATC Alphanumeric Products.
 - Selected ICAO is Irrelevant.
 - ATC Queries Every 60 Seconds for Updated A/N Products.
 - Select or Scroll Through Displayed Product.

UNIT 10: LWNS/ATC

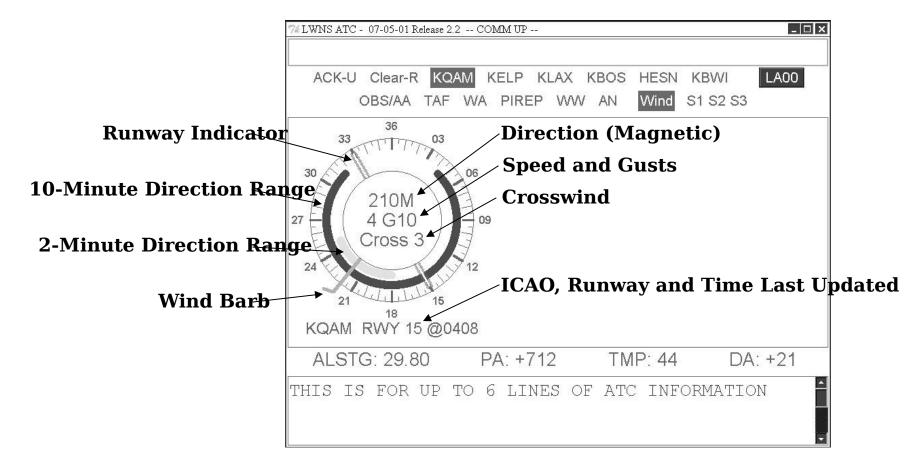


Other A/N Products Display

UNIT 10: LWNS/ATC

- Viewing AOS Wind Data.
 - Select **WIND** to Display the Most Current AOS Wind Data.
 - Displayed as "Wind" on ATC Window.
 - Selected ICAO is Irrelevant.
 - Displays Current Direction, Speed, Gust, Crosswind, and 2 and 10-Minute Direction Range.
 - ATC Queries Every 60 Seconds for Updated Wind Data.

UNIT 10: LWNS/ATC



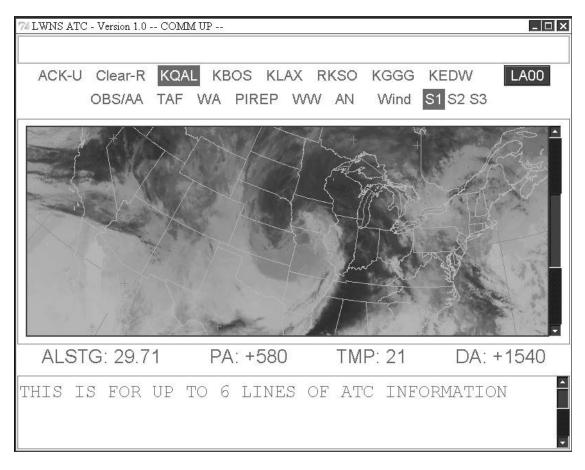
AOS Wind Data Display

UNIT 10: LWNS/ATC

- Viewing Graphic Products.
 - Select **SLOT 1**, **SLOT 2**, or **SLOT 3** to Display the Most Current Subscribed Graphic Product.
 - Displayed as "S1", "S2", and "S3" on ATC Window.
 - Configured by System Manager.
 - LWNS Subscription Service -> Local ATC Graphic Products.
 - Selected ICAO is Irrelevant.
 - Loops Automatically Start Looping.
 - ATC Queries Every 10 Minutes for Updated Graphic Products.
 - Re-select **SLOT 1**, **SLOT 2**, or **SLOT 3** to Query for Updated Products Manually.
 - Select or Scroll Through Displayed
 Product.



UNIT 10: LWNS/ATC



Graphic Data Display

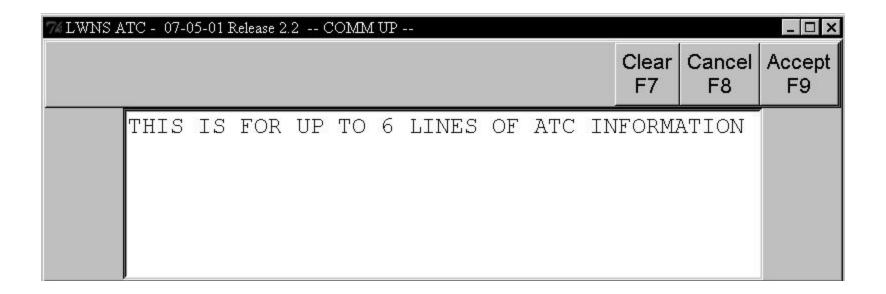
UNIT 10: LWNS/ATC

- Other KeyPad Keys.
 - HELP. For Future Use.
 - LWNS/AOS. For Future Use.
 - NEW PROD. Hot-Key to Display Newest A/N Product(s).

UNIT 10: LWNS/ATC

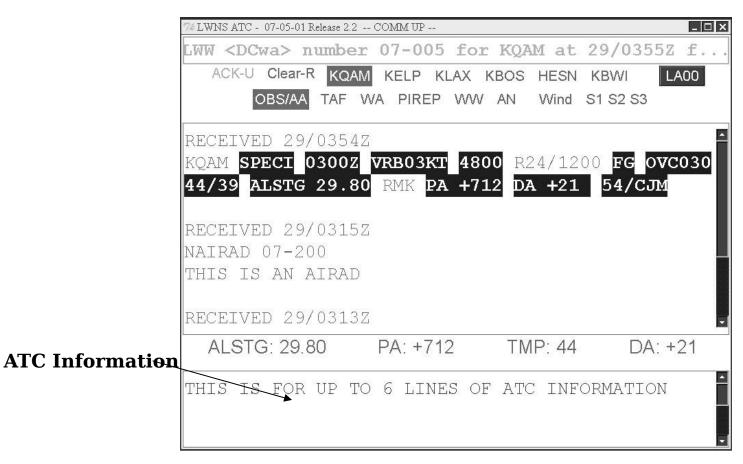
- Entering ATC Information.
 - Allowed Only From the ATC with Attached Keyboard.
 - Select <F10>, the ATC Information Entry Panel is Displayed.
 - Enter Up to 2000 Characters of Text.
 - Server Will Truncate if Greater than 2000 Characters.
 - Select **Accept** or <F9> to Save Information.
 - Information Will Be Displayed at All LWNS/ATC's.
 - Select **Cancel** or <F8> to Cancel Input and Return to ATC Display.
 - Select **Clear** or <F7> to Remove Previous/Current Entry.
 - Use **SELECT** to Scroll Through Displayed ATC Information on ATC Main Display.

UNIT 10: LWNS/ATC



ATC Information Entry Panel

UNIT 10: LWNS/ATC

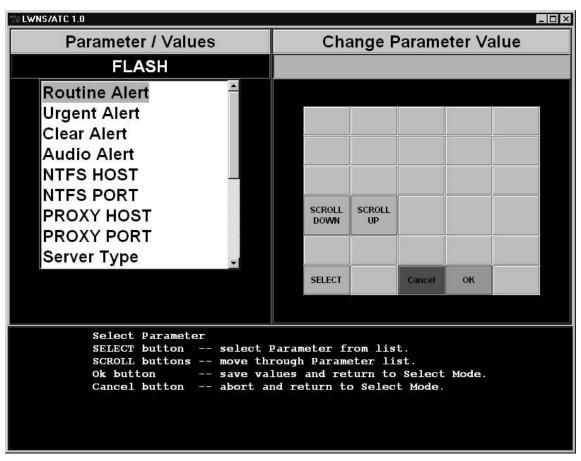


LWNS/ATC Main Display

UNIT 10: LWNS/ATC

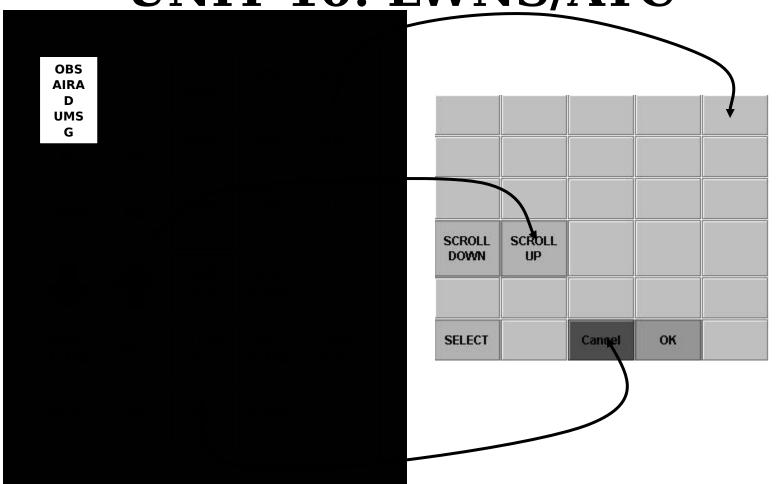
- Configuration Panel.
 - Select **Config** From KeyPad to Display ATC Configuration Panel.
 - Select Options From KeyPad Using Relative Positions On Change Parameter Value Area in ATC Configuration Panel.
 - Most Options Are Used Only For Maintenance Purposes.

UNIT 10: LWNS/ATC



LWNS/ATC Configuration Panel

UNIT 10: LWNS/ATC



LWNS/ATC KeyPad-Configuration Panel Mappings

UNIT 10: LWNS/ATC

- Configuration Panel.
 - Common Mappings.

Configuration Panel		KeyPad
SELECT Cancel	<select> <esc> (2)</esc></select>	
OK	<config></config>	
SCROLL DOWN	•	
SCROLL UP	1.	
CHANGE Backspace	<select></select>	ESC> (2)
MODE	<esc> (1)</esc>	

UNIT 10: LWNS/ATC

- Configuration Panel.
 - Options.
 - Routine Alert. Routine Alert Display Setting.
 - FLASH, NONE, NORMAL, BOLD, REVERSE.
 - Urgent Alert. Urgent Alert Display Setting.
 - FLASH, NORMAL, BOLD, REVERSE.
 - Clear Alert. Clear Routine Alert Action.
 - ALL or SINGLE (One at a Time).
 - Audio Alert. Turns On/Off Routine Audio Alerts per ICAO.
 - NTFS HOST. NTFS Server IP Address.
 - NTFS PORT. NTFS Server Web Server Port Number.
 - PROXY HOST. Proxy IP Address (Optional).
 - PROXY PORT. Proxy Port Number (Optional).

UNIT 10: LWNS/ATC

- Configuration Panel.
 - Options.
 - Server Type. Type of Web Server Connection.
 - Normal or SSL.
 - Server ID. NTFS Server Site Number.
 - ATC ID. ATC Position ID.
 - Connection Type. Type of ATC-to-NTFS Server Connection.
 - LAN or MODEM.
 - Title Text Color. Color of Title Text.
 - Viewer Text Color. Color of Viewer Text.
 - Info Text Color. Color of ATC Information Text.
 - SHUTDOWN. Select to Reboot Client PC.

UNIT 11: MISCELLANEOUS

UNIT 11: MISCELLANEOUS

- Scheduled Macro Completions are Now Routine Alerts.
- Use ".N" in Product Retention Table to Retain Recieved NITF Images.

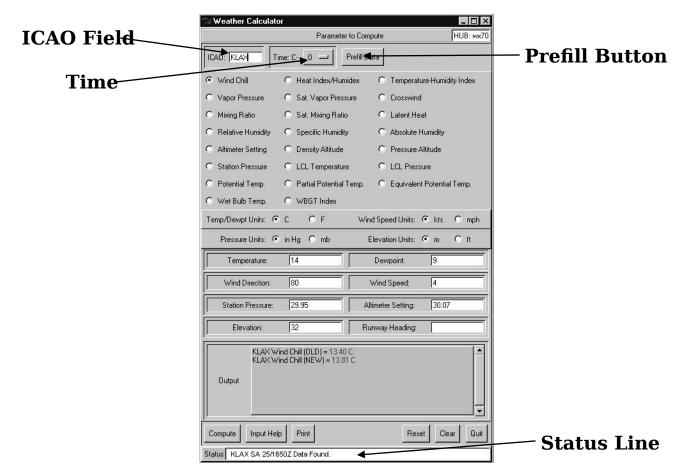
UNIT 11: MISCELLANEOUS

- Database Modifications.
 - Added New Purge Category for Receipt Acknowledgements.
 - Category 31 Non-User Editable.
 - Added New Purge Category for NITF Images.
 - Category 32 Non-User Editable.
 - Added New Purge Category for TAFVER Data.
 - Category 10 Non-User Editable.
 - Images Now Stored as "png" Images.
 - Storage Now Increased to ~1450 METSAT, and ~2800 NEXRAD Images.
 - Increased External A/N Storage to 140MB.

UNIT 11: MISCELLANEOUS

- Weather Calculator.
 - Added Capability to Prefill Observational Data.
 - Enter Desired ICAO in ICAO Field.
 - Select **Time** (Current (C-0) to 12 Observations in the Past).
 - Uses Both METAR's and SPECI's.
 - Select **Prefill Data**.
 - Any Available Data Will be Prefilled.
 - Elevation and Runway Heading Retrieved From WMO Table.
 - Type and Time of Data Displayed in Bottom Status Line.
 - Select **Print** to Print Input Data and Any Computed Data in **Output** Field.
 - Printing Only Available on Clients.

UNIT 11: MISCELLANEOUS



Weather Calculator

UNIT 11: MISCELLANEOUS

- Stand-Alone LWNS Server.
 - Only Operational Difference is Most RSM Options, and Some NTFS Main Workspace Selections, are Not Available.
 - Available Options From LWNS Server:
 - CD Operations->Checkpoint->Read and Write.
 - CSSO Access Control.
 - Local ICAO Administration->Site Data Information.
 - LWNS Subscription Service.

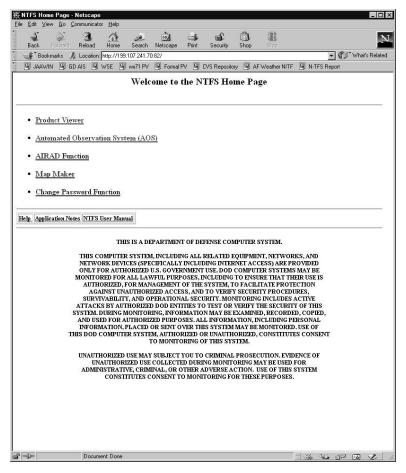
UNIT 11: MISCELLANEOUS

- Stand-Alone LWNS Server.
 - Unavailable Options From NTFS Main Workspace Menu.
 - Severe Wx.
 - Web HTML Admin.

UNIT 11: MISCELLANEOUS

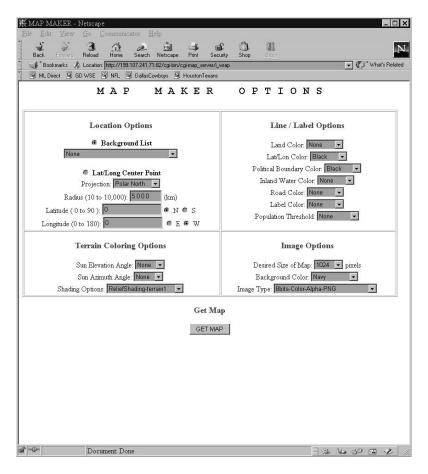
- High-Resolution Terrain Backgrounds from Browser.
 - From the NTFS Home Page, Select "Map Maker".
 - Protected by Usual Username/Password Authentication.

UNIT 11: MISCELLANEOUS



Basic NTFS Home Page

UNIT 11: MISCELLANEOUS



Map Maker Page

UNIT 11: MISCELLANEOUS

- High-Resolution Terrain Backgrounds from Browser.
 - Location Options.
 - Background List Select From Standard/AOI NTFS Server Backgrounds.
 - Lat/Long Center Point.
 - Projection Select Polar North/South or Mercator.
 - Radius Enter Radius in Kilometers (10-10000).
 - Latitude Enter Center Point Latitude (N/S).
 - Longitude Enter Center Point Longitude (E/W).

UNIT 11: MISCELLANEOUS

- High-Resolution Terrain Backgrounds from Browser.
 - Terrain Coloring Options.
 - Sun Elevation Angle Select Elevation of Sun to Enhance Relief Affect.
 - Sun Azimuth Angle Select Direction of Sun to Enhance Relief Affect
 - Shading Options Select Pre-Defined Shading Curves.

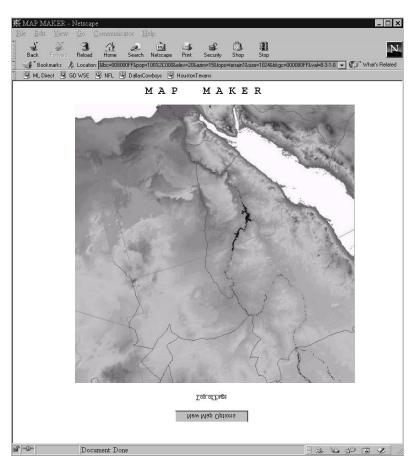
UNIT 11: MISCELLANEOUS

- High-Resolution Terrain Backgrounds from Browser.
 - Line/Label Options.
 - Land Color Select Desired Color of Land.
 - Lat/Lon Color Select Desired Color of Lat/Lon Lines.
 - Political Boundary Color Select Desired Color of Political Boundary Lines.
 - Inland Water Color Select Desired Color of Inland Water.
 - Road Color Select Desired Color of Roads.
 - Label Color Select Desired Color of City Labels.
 - Population Threshold Select Population Threshold Value When to Start Creating City Labels.

UNIT 11: MISCELLANEOUS

- High-Resolution Terrain Backgrounds from Browser.
 - Image Options.
 - Desired Size of Map Select map Size in Pixels.
 - Background Color Select Map Background Color.
 - Image Type Select Type of Image.
 - JPEG or PNG.
 - Color or B/W.
 - Alpha/No Alpha (Transparency).
 - Select GET MAP When Options are Selected.

UNIT 11: MISCELLANEOUS



Completed Map Display

UNIT 12: NTFS PROCESS FLOW

QUESTIONS & ANSWERS